

KV-M14D/P14D

RM-658

SERVICE MANUAL

AEP Model

KV-M14D

Chassis No. SCC-B66A-A

KV-P14D

Chassis No. SCC-B66B-A

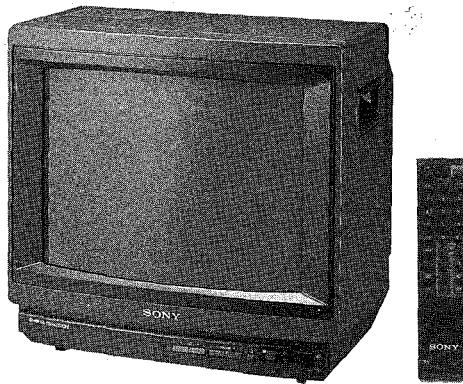


Photo: KV-M14D

B-1 CHASSIS

Note: The service manual for RM-658 has been issued separately.

SPECIFICATIONS

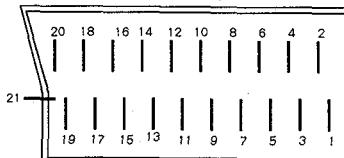
Television system	CCIR B, G and H
Color system	PAL SECAM
Channel coverage	VHF E2 - S20 UHF E21 - E69
Picture tube	Trinitron tube 90degree deflection Approx. 36.8cm (14inches) (Approx.33.7cm picture measured diagonally)
Input	21 - pin connector : CENELEC standard AV connector
Output	Earphone jack : minijack, 21 - pin connector : CENELEC standard
Power consumption	47Wh
Dimensions	Approx. 358×346.5×401mm (W/H/D)
Weight	Approx. 11kg
Supplied accessories	RM - 658 Remote Commander (1) (KV - M14D ONLY) IEC designation R6 batteries (2) (KV - M14D ONLY) VHF telescopic antenna (1) Antenna connector (300-75 ohm matching transformer is built-in.) (1) Sound output 3.5w (music power)

Design and specifications are subject to change without notice.

MODELS OF THE SAME SERIES

KV-M14D/P14D

21 - pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kilohms or more
7	B-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14		
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	1Vp-p/75ohms
21	Screening plug	



TRINITRON® COLOR TV
SONY®

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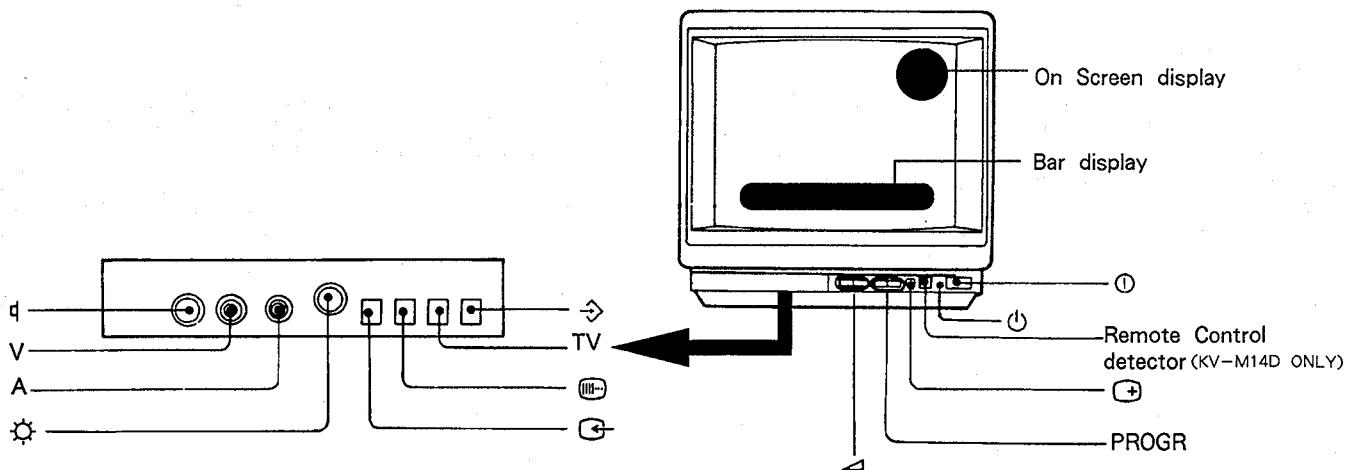
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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

1-1. FUNCTION OF CONTROLS



On the set

④ On-screen display

Indicates program numbers and input mode ; . Press the button to make the display appear on the screen, and again to make it disappear. See also "On the Remote Commander" below.

Bar display

Indicates the level of the user controls when they are adjusted ; volume, contrast or color.

① power switch

To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing the switch fully.

Remote control detector (KV-M14D ONLY)

Point the Remote Commander towards this detector.

⑤ standby indicator

Lights up brightly when the set is in standby mode.

volume +/− buttons

Use to adjust the volume to the required level.

PROGR +/− buttons

Use to scan the available channels. To turn on the set from standby mode without a Remote Commander, press one of these buttons.

Inside the panel

earphone jack (minijack)

preset button

analogue select buttons

Press repeatedly until the on-screen display of the required adjustment appears (volume, contrast or color). Adjust by using the + or - buttons.

input button

Press this button to view the input picture coming in through the 21-pin connector or the connectors on the front panel. appears on the screen. Press again or PROGR + / − to return to the TV mode.

Extra equipment can be connected to the TV using both the 21-pin connector and the input connectors, but only one piece of equipment besides the TV should be turned on at one time.

brightness control

Turn clockwise for more brightness or anticlockwise for less.

Video/Audio input connectors (phono)

Connect to a VTR, micro-computer, etc.

◦ V (Yellow) video input

◦ A (Black) audio input (mono)

TV button

Set TV to the system used in your local area.

Each time TV button is pressed, "L" or "B/G" appears on the screen alternately.

L : for French TV standard (system L)

B/G : for CCIR TV standards (system B, G and H)
(Western European TV standards)

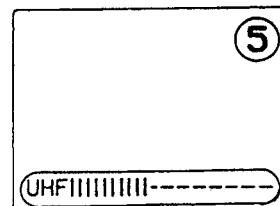
1-2. TO PRESET CHANNELS

Use the buttons inside the panel. To open the panel, pull the centre.

Manual Programming

To Tune in a Channel in Any Desired Program Position

- 1 Press \diamond (preset) to select the presetting mode.
- 2 Select the desired program position by using the PROGR + or - button.
- 3 Press \triangle + or - repeatedly until the TV program of the desired channel appears.
Repeat steps 2 and 3 for all desired channels.
- 4 Press \diamond again to return to the TV mode.

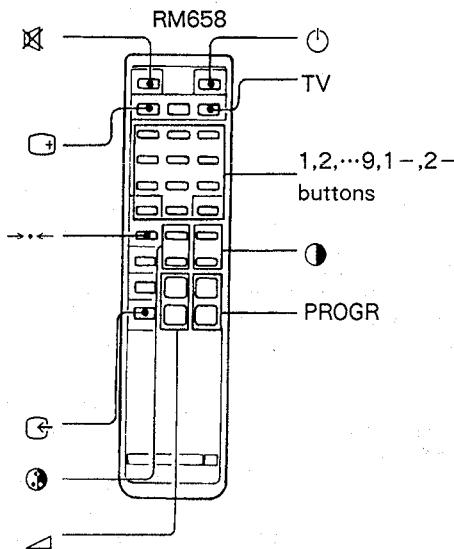


Program position flashes.

Indicates the approximate location in the band of the channel being tuned in.
The number of upright segments increase for a higher-frequency channel and decrease for a lower-frequency channel.

1-3. ON THE REMOTE COMMANDER

(KV-M14D ONLY)



To operate the Commander, point it toward the remote control detector.

\times mute button

Use to mute the sound. Press \triangle + or \times to restore the sound.

0, ..., 9, 1-, 2-buttons

To select:

program 15, press 1- and 5,
program 25, press 2- and 5.

$\rightarrow \leftarrow$ normal button

Press to return color and contrast to factory-set levels.

\odot standby button

Press to select standby mode. Use this facility to turn off the set for short periods of time.

To return to TV mode, press TV or the program number on the Remote Commander; there will be a slight delay before the picture is restored. If the main power is turned off when in standby mode, the indicator will take 2 to 6 seconds to go off.

\square on-screen display button

Press to make the display appear on the screen, and again to make it disappear.

PROGR +/ - buttons

Use to scan the available channels.

\triangle +/ - volume buttons

\odot color buttons

\odot contrast buttons

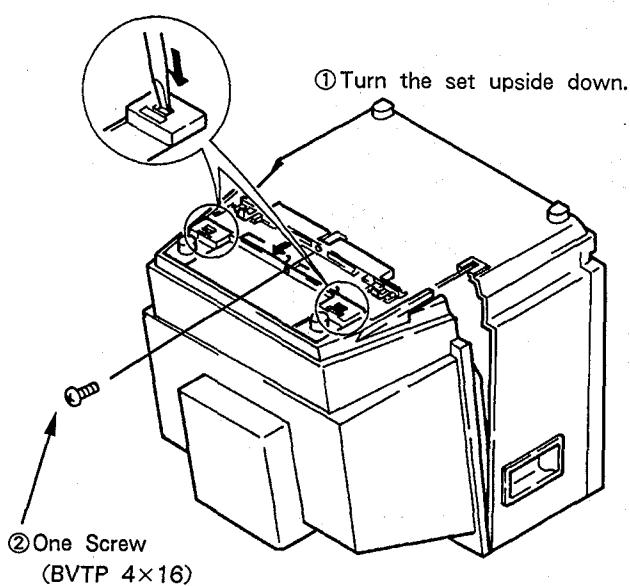
\odot input button

Press to view the input picture from the \odot connector or \odot connectors. " \odot " appears on the screen. Press \odot PROGR +/ - or a program number key to return to the TV mode.

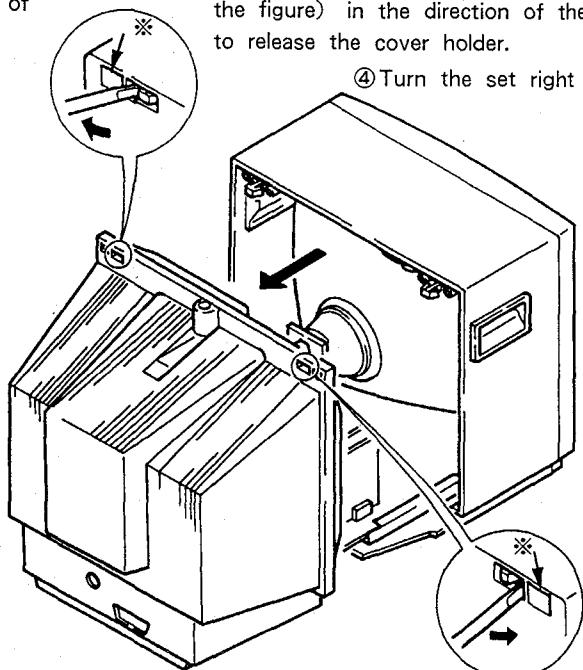
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

③ On the bottom of the rear cover, use a screwdriver to push down the two tabs (circled in the figure) in the direction of the arrow to release the cover.



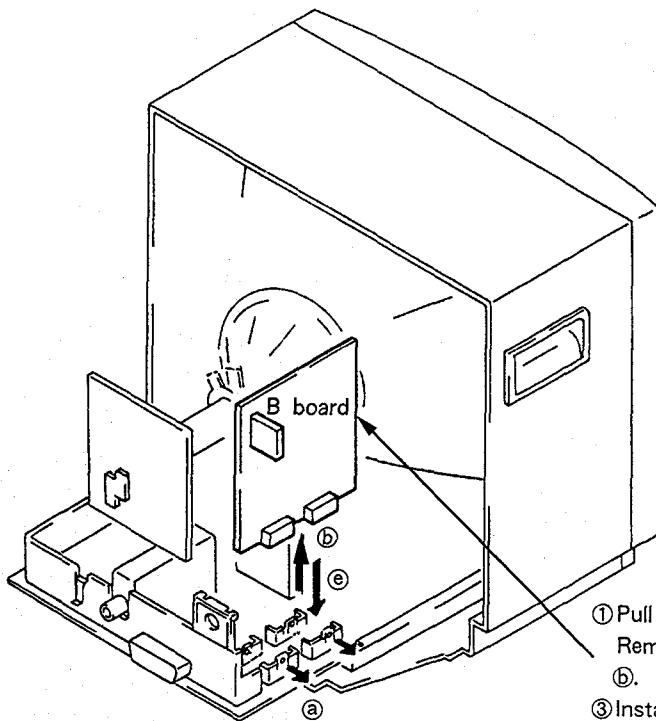
⑤ On the top of the rear cover, use a screwdriver to push the tab (circled in the figure) in the direction of the arrow to release the cover holder.



⑥ Repeat step 5 for the other tab, as shown in the figure.

* In case a nut is provided, please remove it.

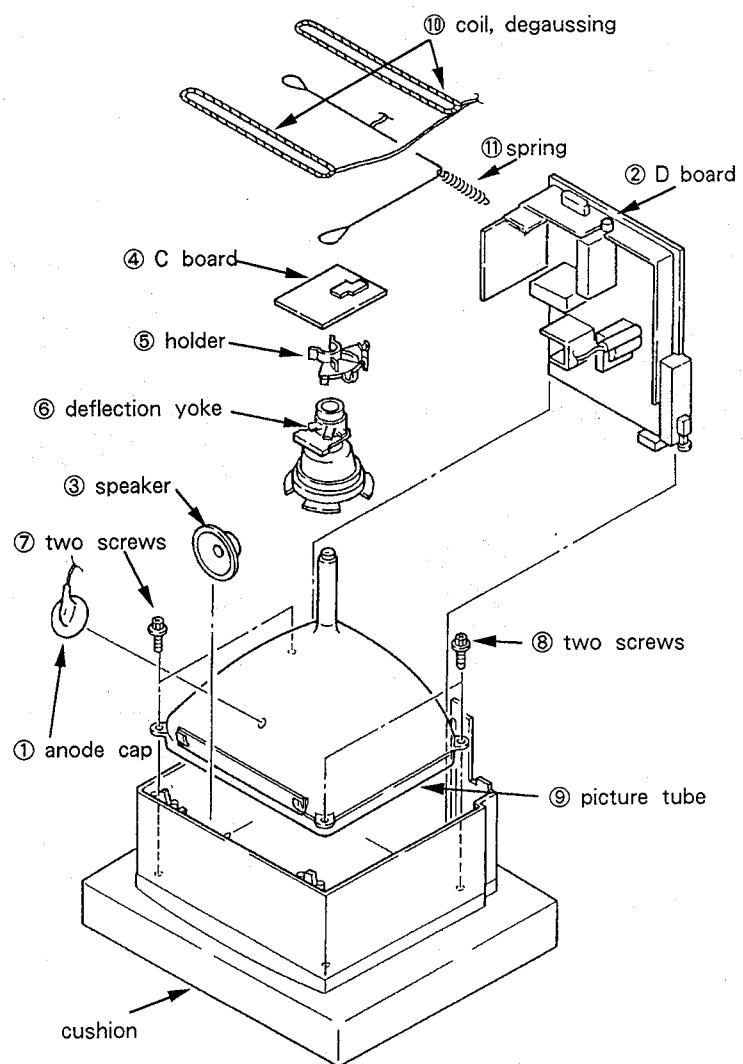
2-2. B BOARD REMOVAL



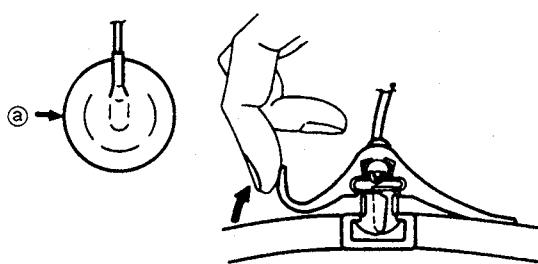
① Pull the two clips in the direction of arrow ②. Remove the ② board in the direction of arrow ③.

③ Install the ② board in the direction of arrow ④.

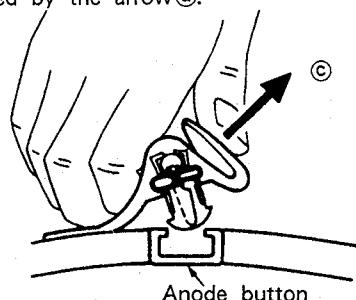
2-3. PICTURE TUBE REMOVAL



● **Removing Procedures**



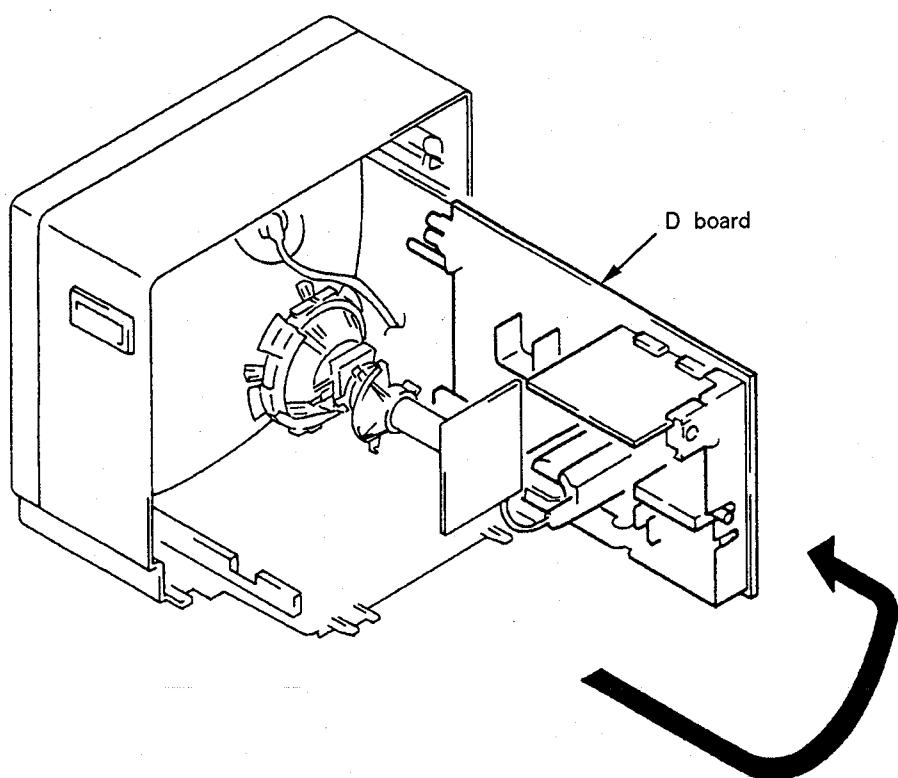
① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ③.

③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ④.

2-4. SERVICE POSITION



SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

● CONTRAST control 80% (or Normal by Commander)
● BRIGHTNESS control 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
CONTRAST } normal
BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly.
(Fig. 3-1 — 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magent.(Fig. 3-4)

Fig.3-1

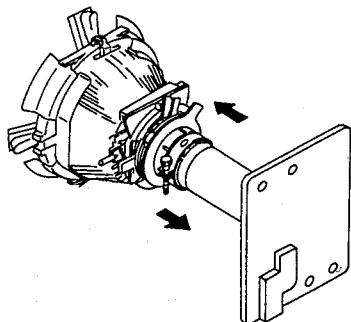


Fig.3-2

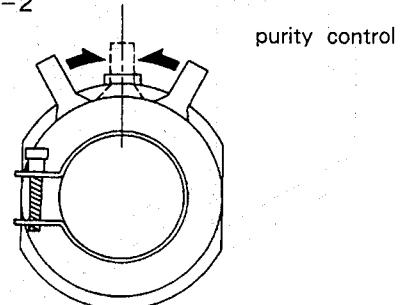


Fig.3-3

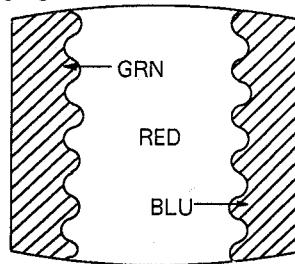
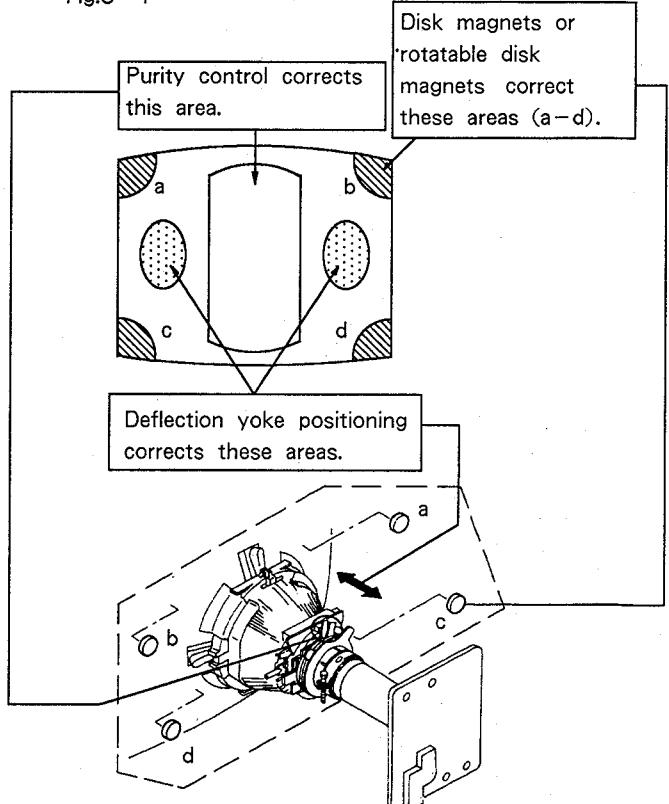


Fig.3-4

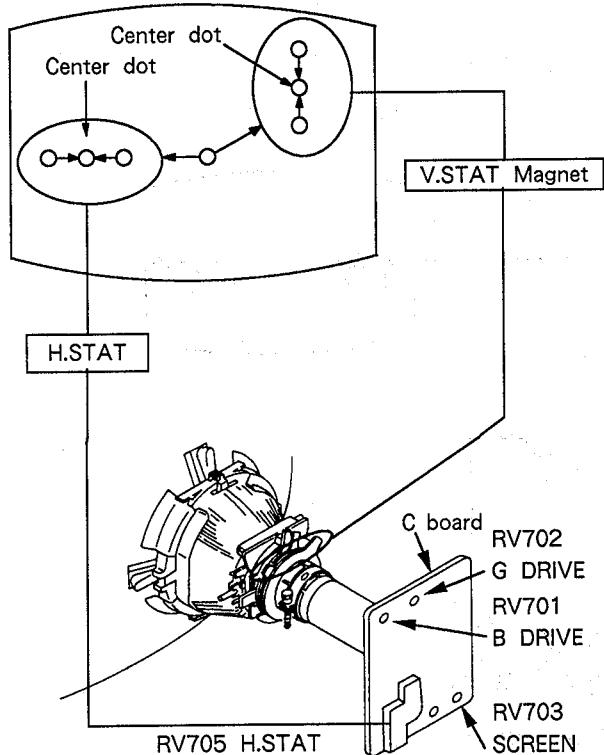


3-2. CONVERGENCE

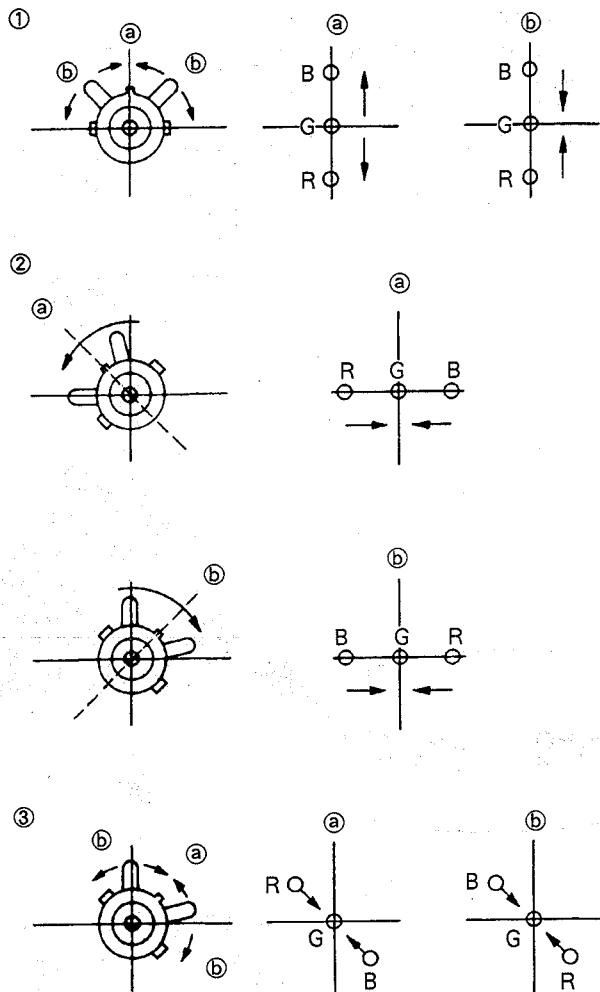
Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

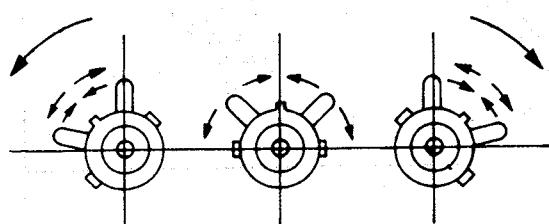
(1) Horizontal and Vertical Static Convergence



4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.



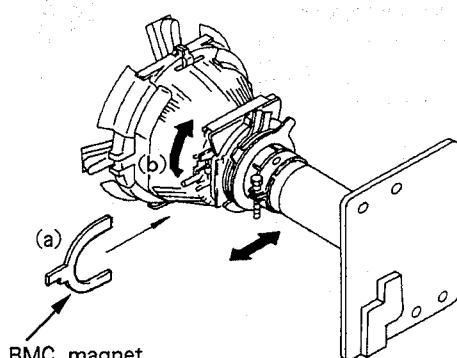
1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



If the red and blue dots do not coincide with green dot, perform following steps.

- Move BMC magnet (a) to correct insufficient H. static convergence.
- Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

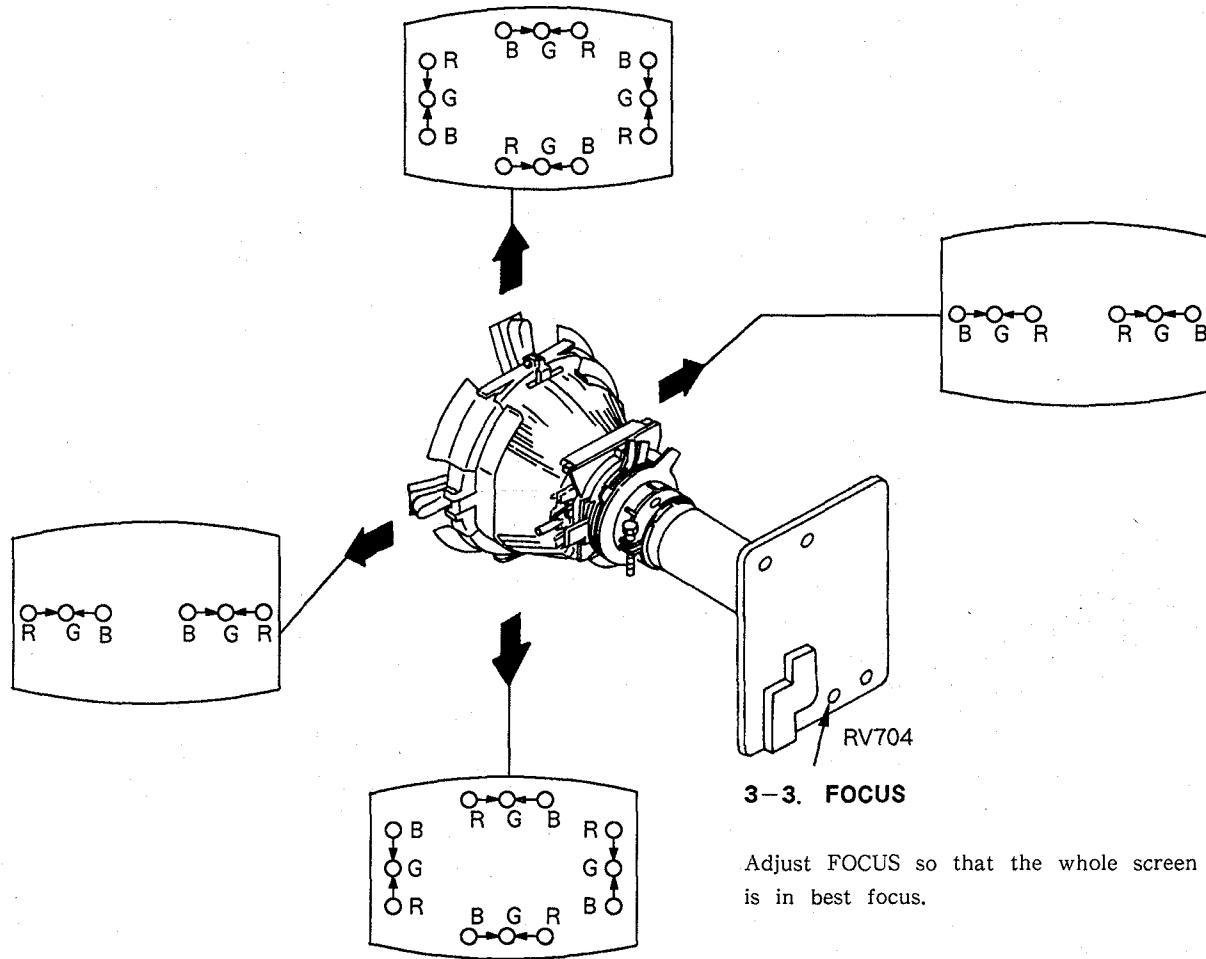


(3) Dynamic Convergence Adjustment

Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

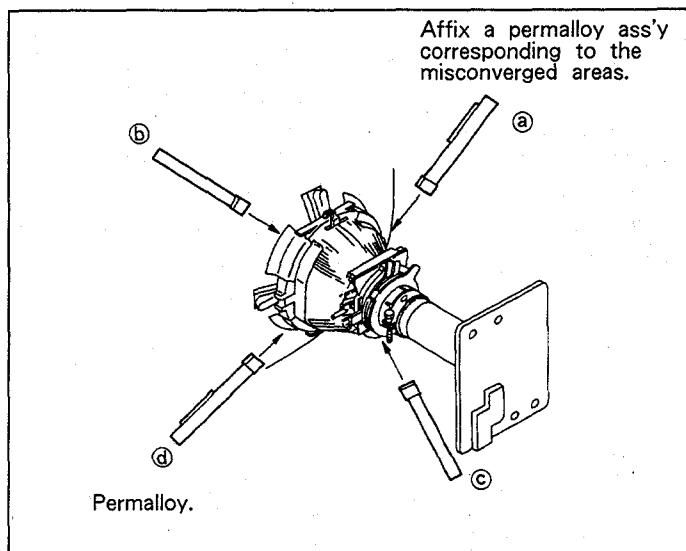
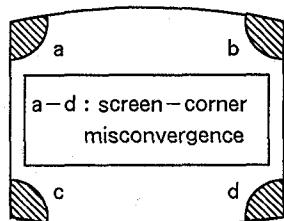
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

(4) Screen-corner Convergence



SECTION 4 CIRCUIT ADJUSTMENTS

3-4. WHITE BALANCE

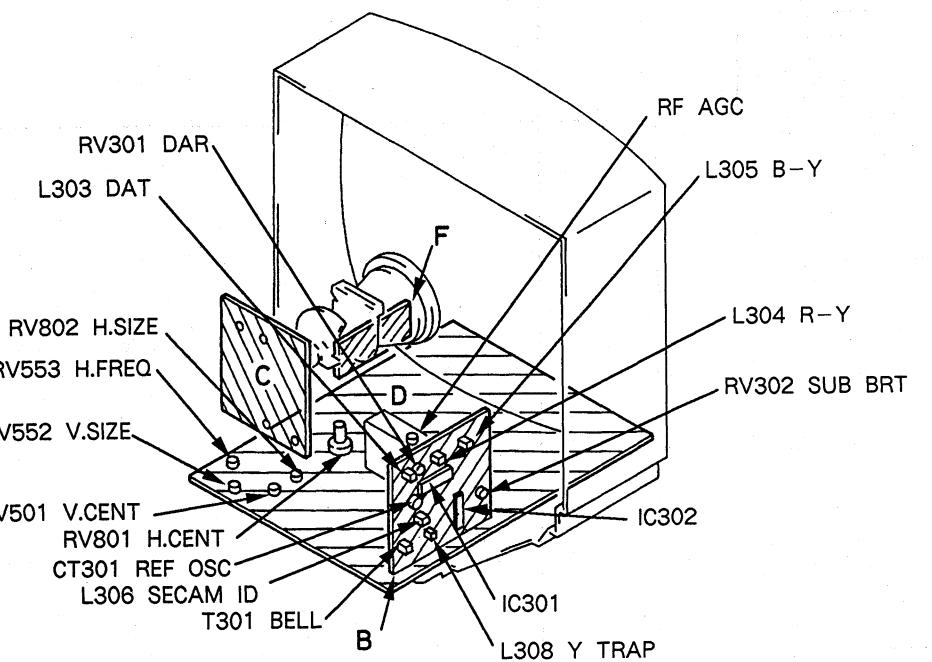
[Screen (G2) Setting]

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 140 V DC to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV703) immediately before the fly-back line disappears.

[White Balance Adjustment]

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV701 (B DRIVE) and RV702 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

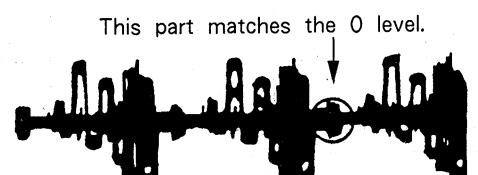


4-1.B BOARD ADJUSTMENTS

REF OSC Adjustment (CT301)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC301 and ground.
3. Adjust CT301 to obtain color synchronization.
4. Remove the jumper wire from IC301.

5. Rotate the RV301 VR and adjust till the ANT PAL part of the waveform matches the 0 level.



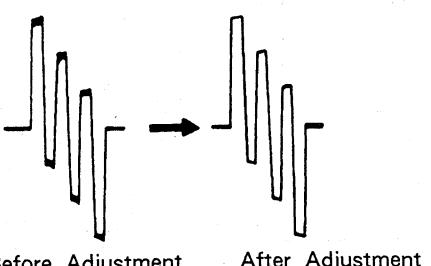
Before Adjustment



After Adjustment

1H DELAY LINE Adjustment (L303 DAT, RV301 DAR)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ③ (B-Y) of IC301 and observe the waveform of the H block on the oscilloscope.
3. Adjust L303 to minimize the double waveform outline.



4. Input a PAL TEST COLOR BAR pattern.

6. L303 and RV301 affect each other, so repeat till the conditions of both are met.

Y TRAP 4.25 MHz ADJUSTMENT (L308)

1. Input a SECAM COLOR BAR pattern.
2. Connect pin ⑮ of IC302 to the oscilloscope and adjust L308 so that the waveform level becomes minimum.



F AGC

L305 B-Y

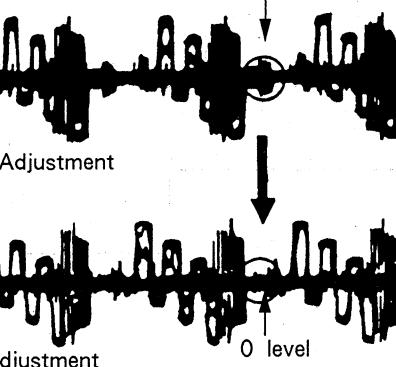
L304 R-Y

RV302 SUB BRT

02

the RV301 VR and adjust till the ANT PAL waveform matches the 0 level.

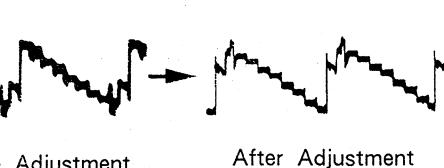
This part matches the 0 level.



RV301 affect each other, so repeat till the both are met.

MHz ADJUSTMENT (L308)

Input a SECAM COLOR BAR pattern, connect pin ⑯ of IC302 to the oscilloscope and adjust so that the waveform level becomes minimum.

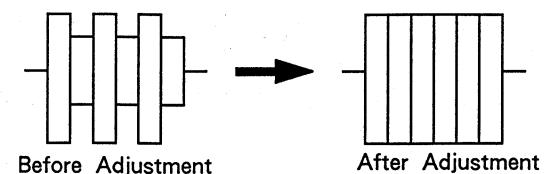


SECAM ID Adjustment (L306)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ⑩ of IC301.
3. Adjust L306 so that the indicator goes up to the maximum.

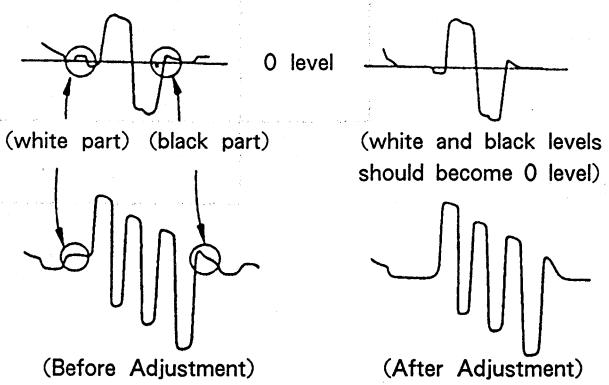
BELL FILTER Adjustment (T301)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q302 emitter.
3. Adjust T301 so that the waveform becomes flat.



SECAM DISCRI Adjustment (L304 R-Y L305 B-Y)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC301.
3. Adjust L304 (R-Y) so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC301.
5. Adjust L305 (B-Y) so that white and black parts of the waveform of pin ③ becomes 0 level.



SUB BRT Adjustment (RV302)

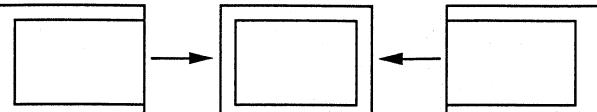
1. Input a PAL COLOR BAR signal.
2. Set CONTRAST and COLOR volume to a minimum, and set the BRIGHTNESS volume control to the mechanical center.
3. Slowly rotate SUB BRT (RV302) until the red portion is faintly illuminated.

4-2. D BOARD ADJUSTMENTS

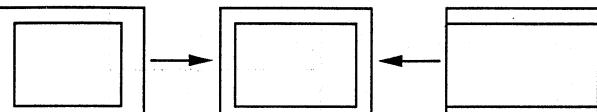
TU AGC (RF AGC)

1. Tune in air signals.
2. Adjust AGC VR (RF AGC) so that snow-noise and cross-modulation just disappear from the picture.

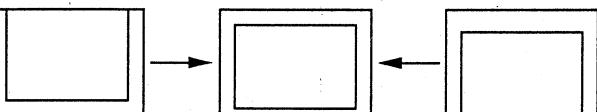
RV801 H.CENT (HORIZONTAL CENTER)



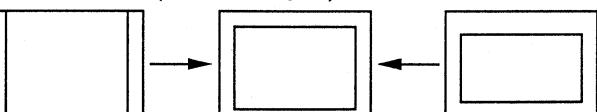
RV802 H.SIZE (HORIZONTAL SIZE)



RV501 V.CENT (VERTICAL CENTER)

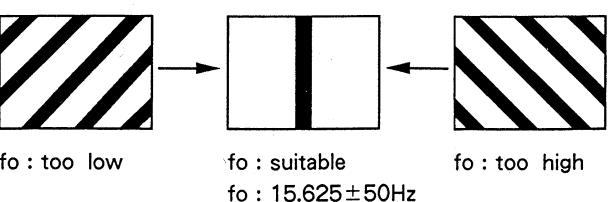


RV552 V.SIZE (VERTICAL SIZE)



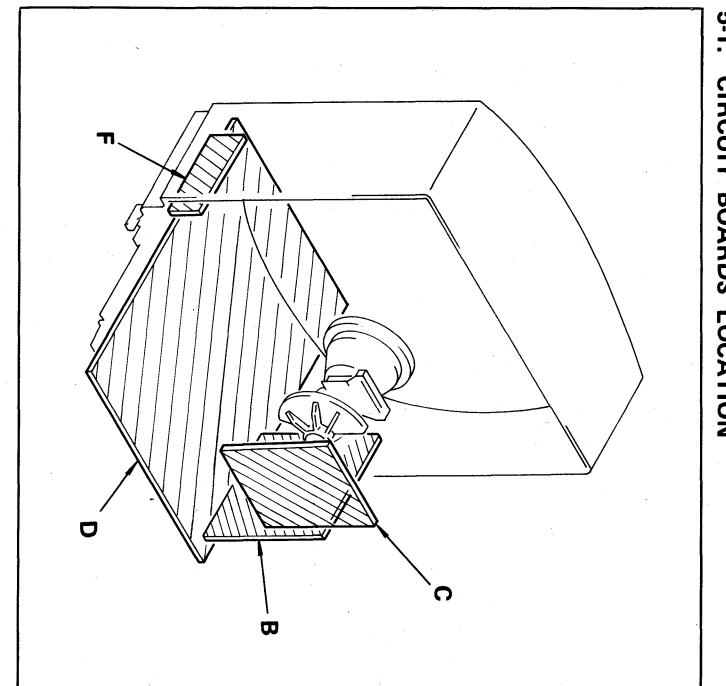
H. FREQ (RV553)

1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100 μ /16V) between Pin ⑤ and GND of IC551.
2. Adjust RV553 (H. FREQ) to stop scrolling of the picture in the horizontal direction.
3. After adjustment, remove the electrolytic capacitor.



SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μ F unless otherwise noted. μ F : $\mu\mu$ F 50W or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch : 5mm

Rating electrical power : 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input, no mark : PAL
- () : SECAM
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B+ line
- \downarrow : signal path

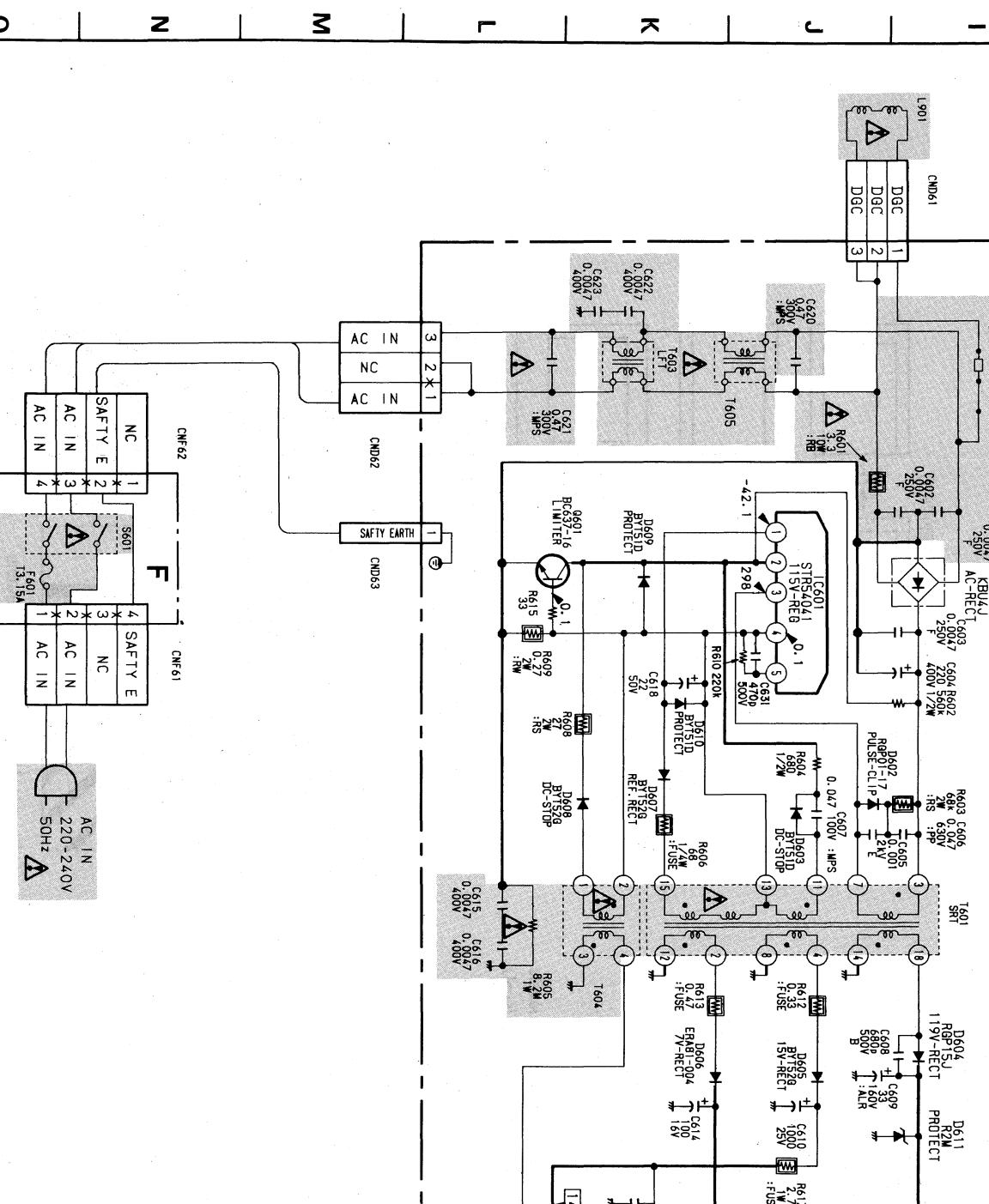
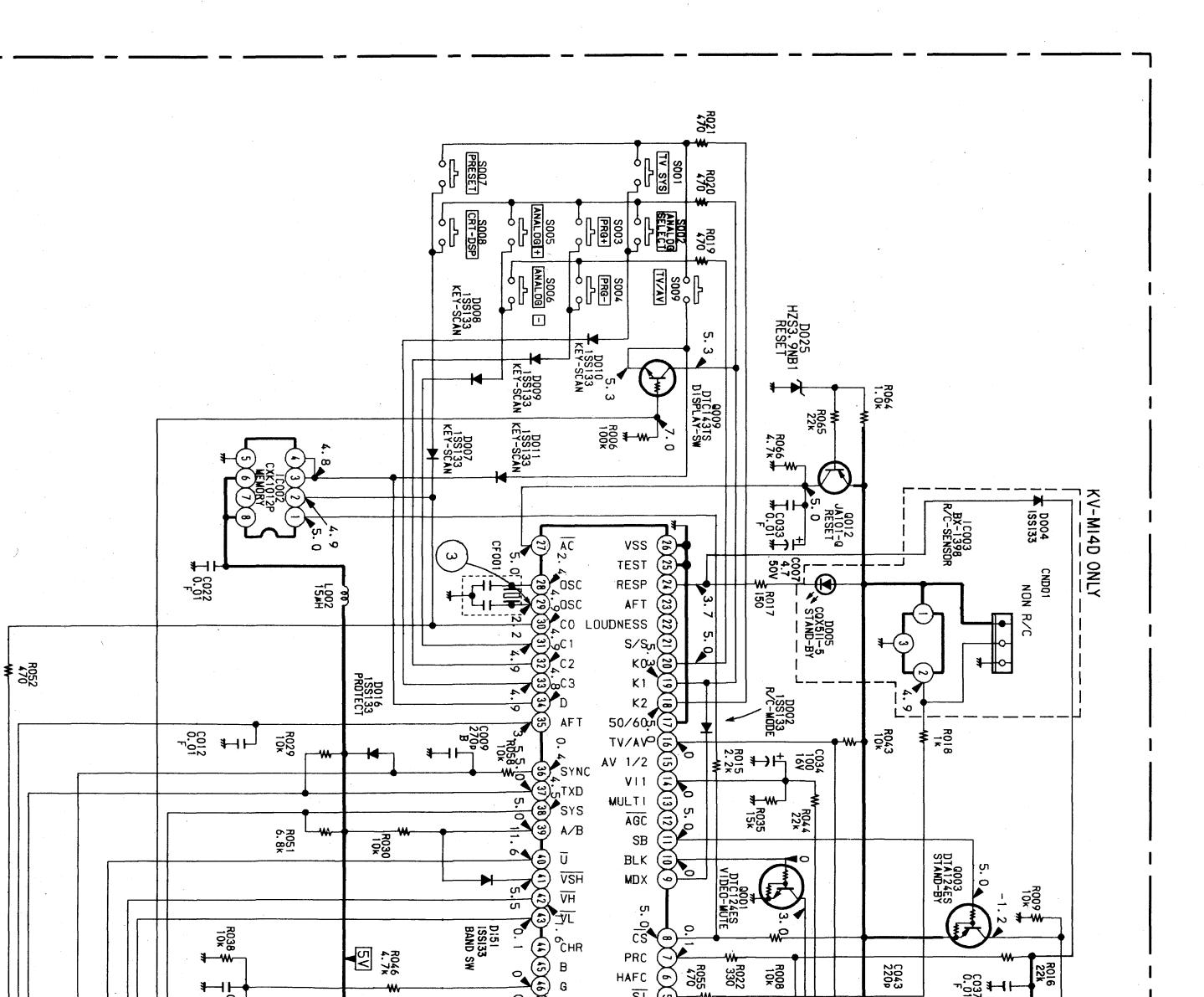
Reference information

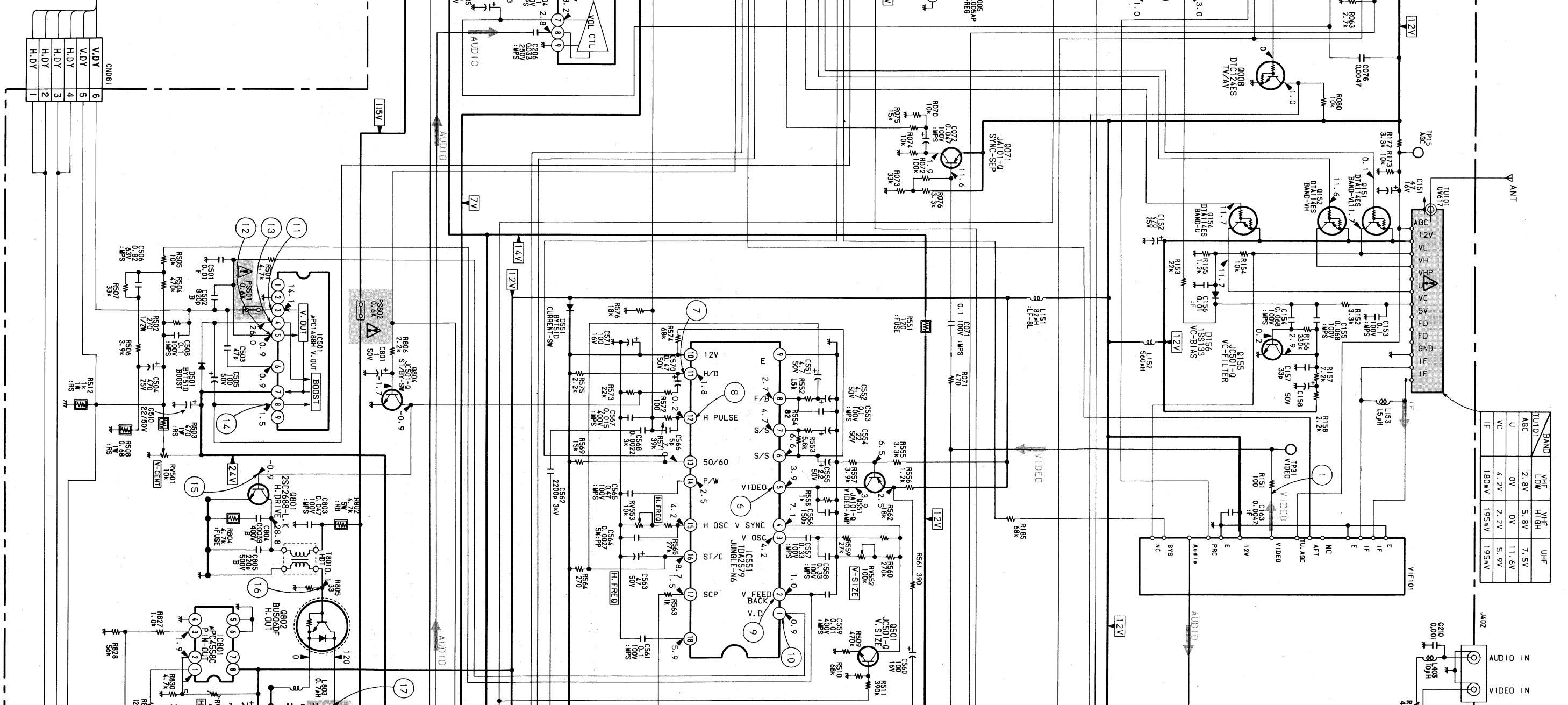
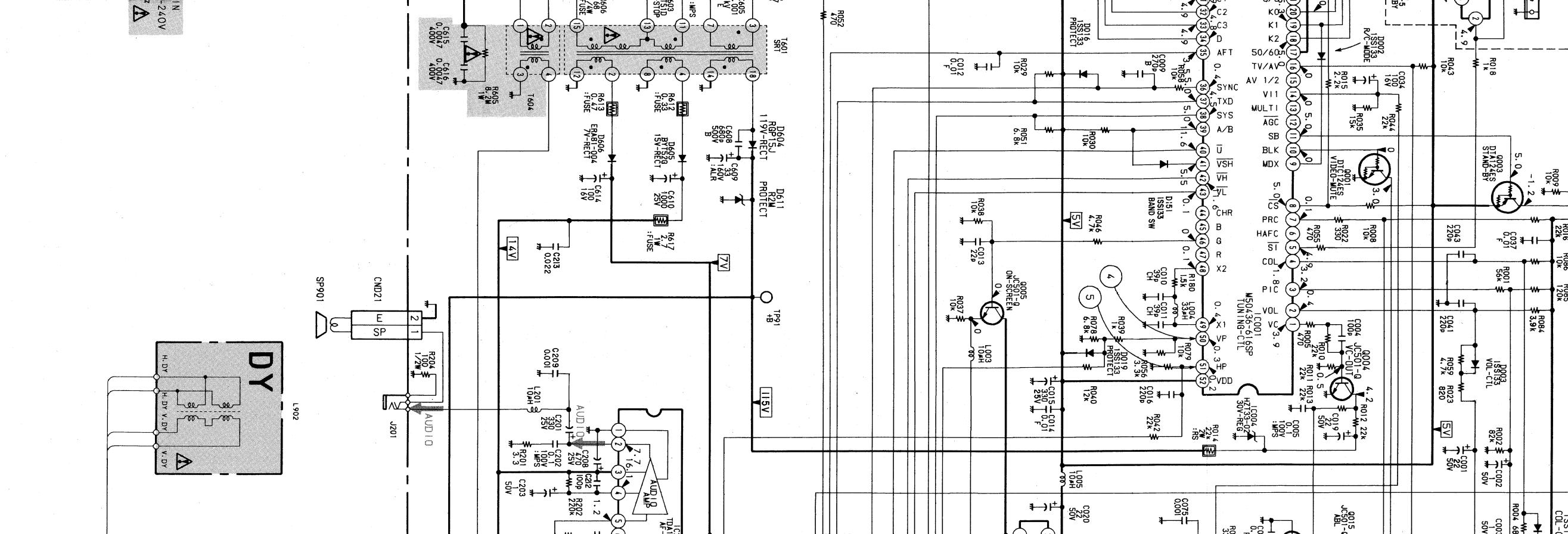
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE CEMENT
COIL	: RB	MICRO INDUCTOR
CAPACITOR	: LF-8L	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

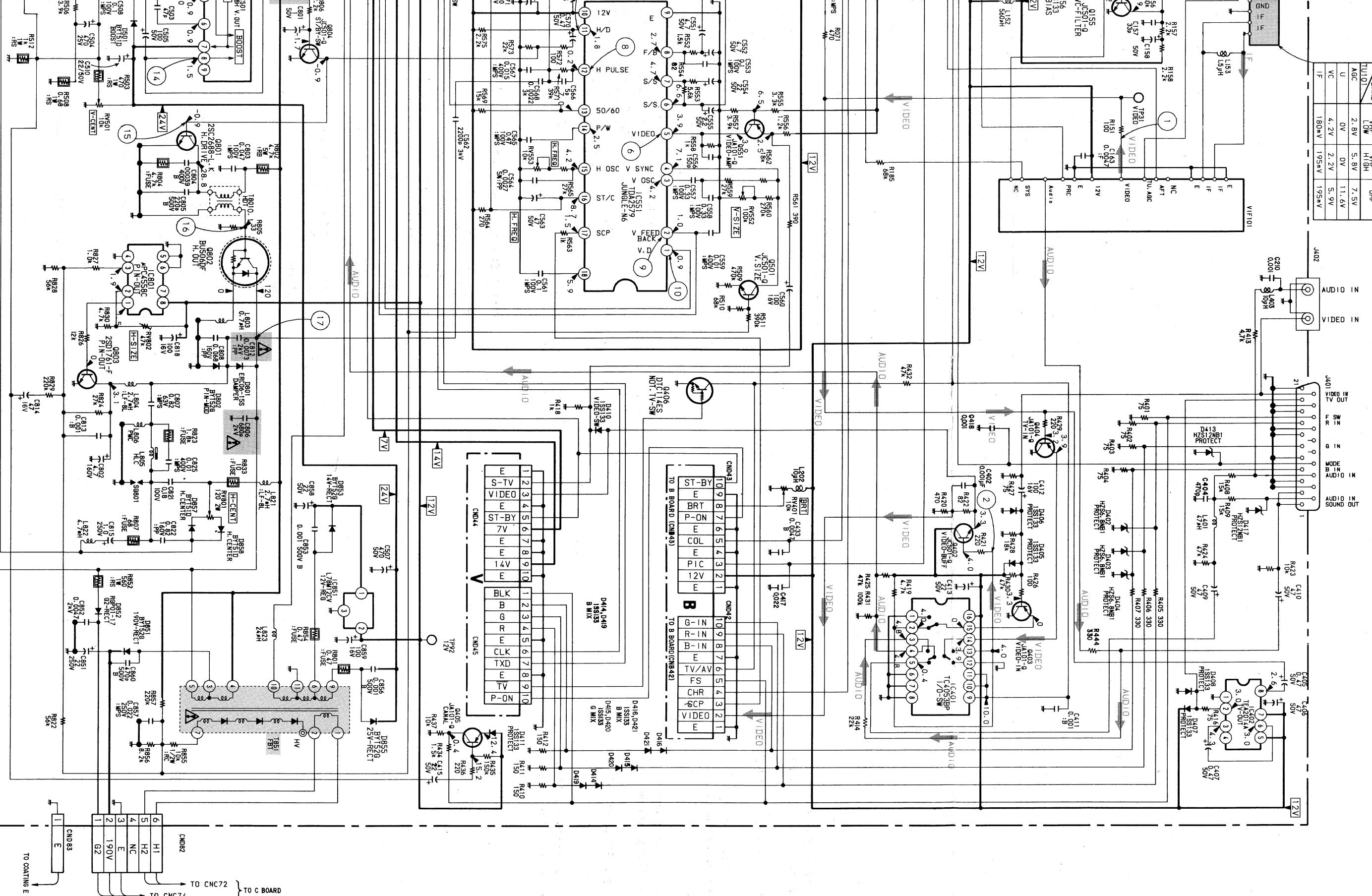
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

5-2. SCHEMATIC DIAGRAMS (1)

1 2 3 4 5 6 7







SYSTEM CONTROL, AUDIO/VIDEO OUT,
MEMORY, H/V OUT, TUNER,
LINE RECT, PWM REG,

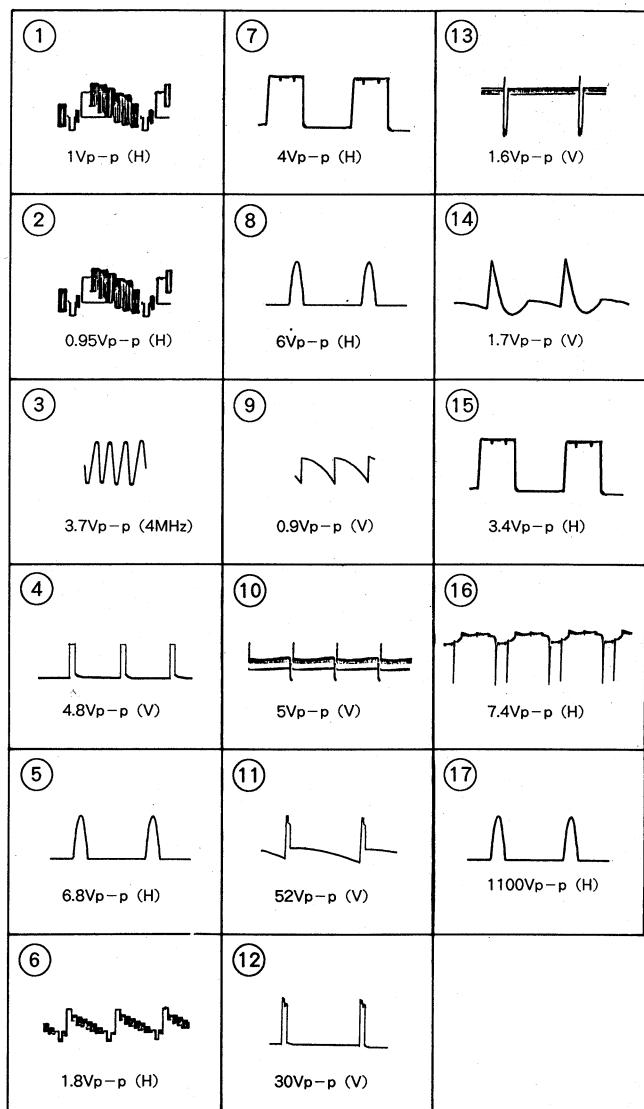
D

D

NOTE:

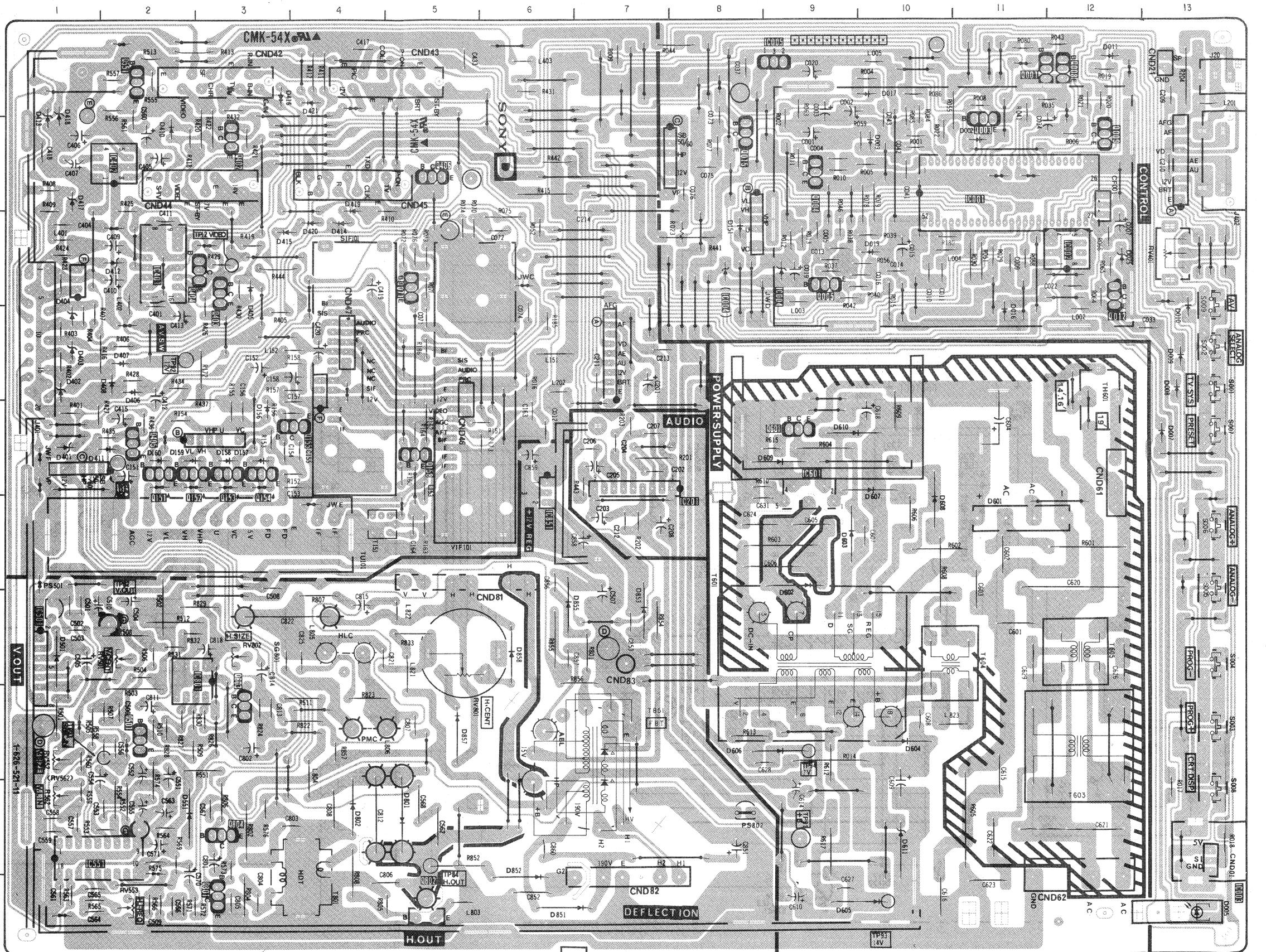
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

● D BOARD WAVEFORM

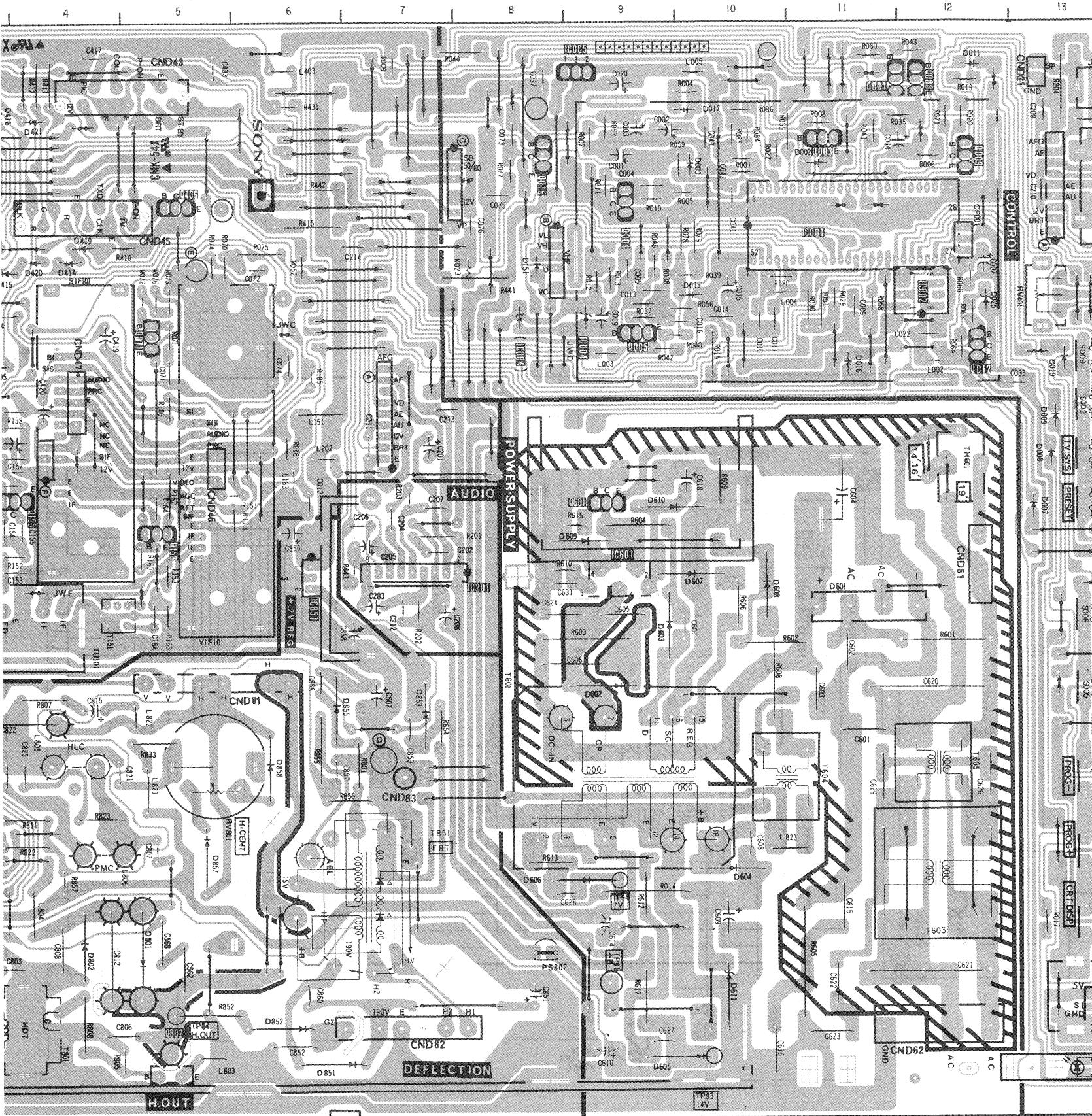


5.3. PRINTED WIRING BOARDS (1)

- D Board -

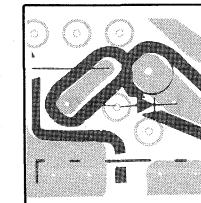


D D



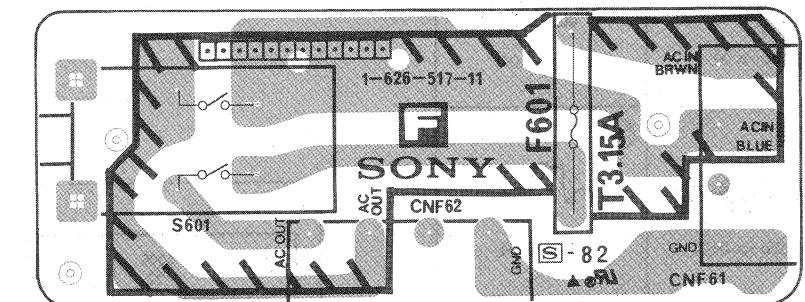
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

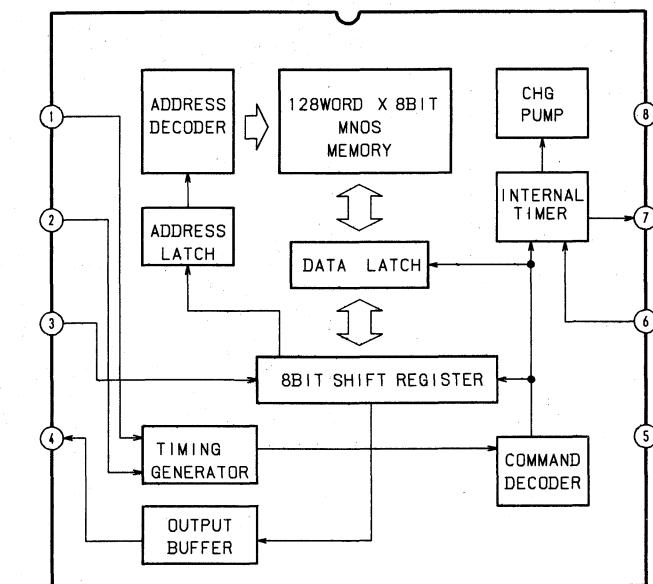


F

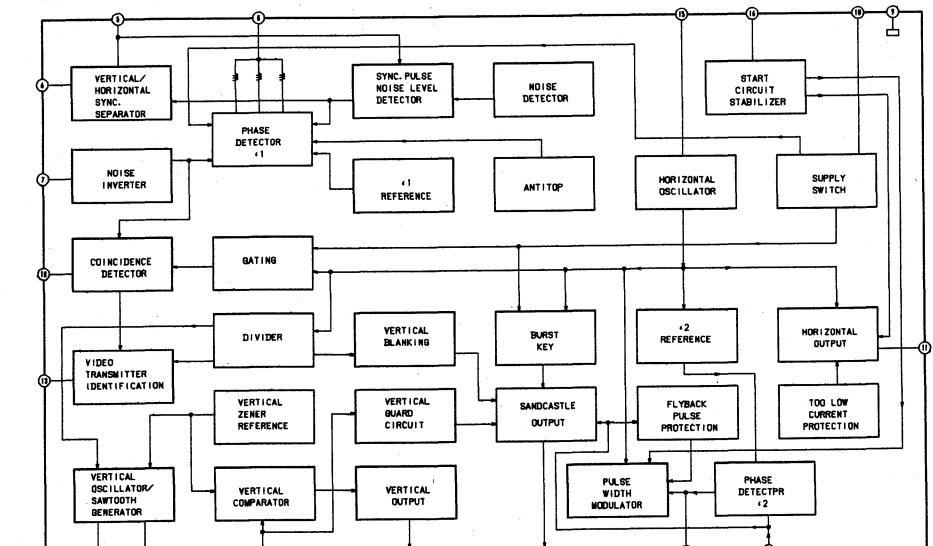
— F Board —



D BOARD IC002 CXK1012P

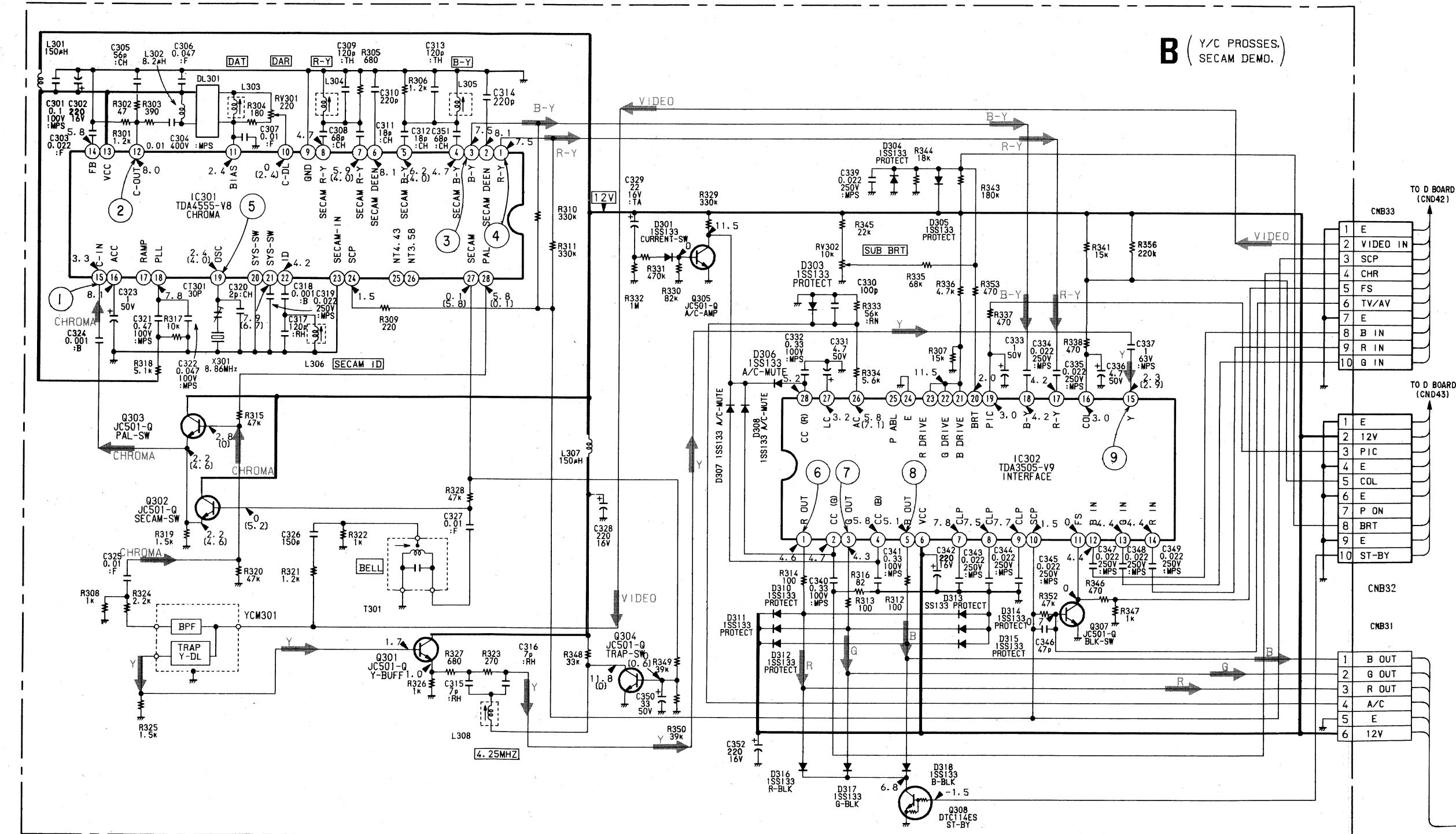
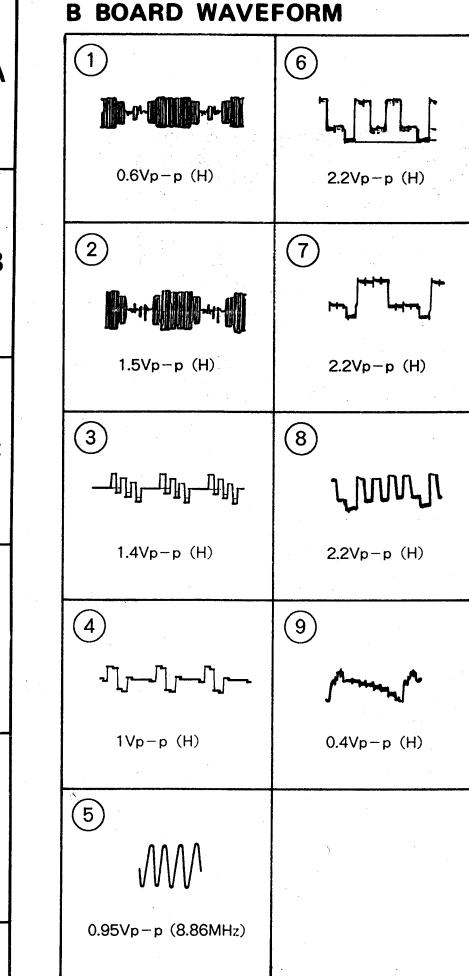


D BOARD IC551 TDA2579

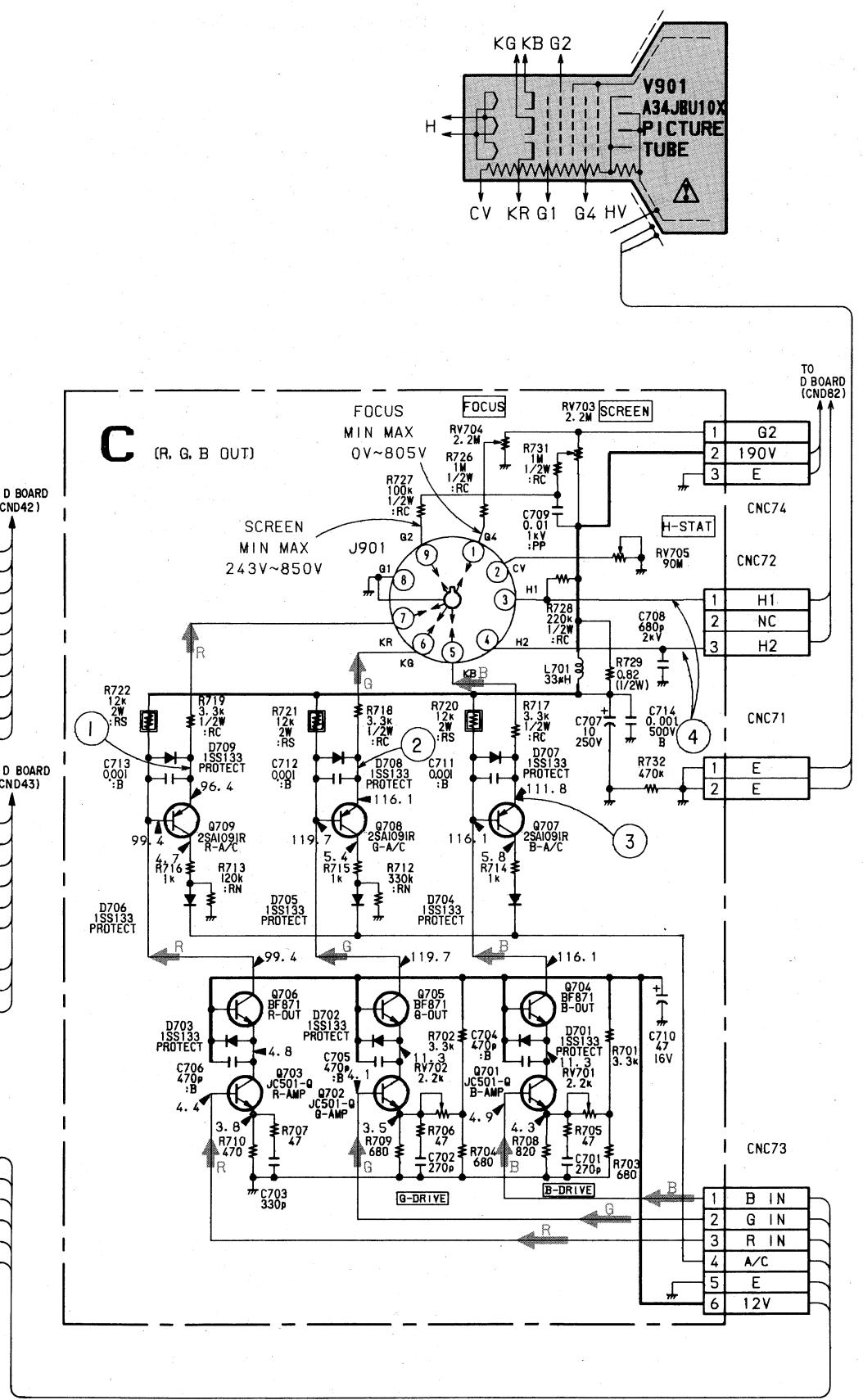
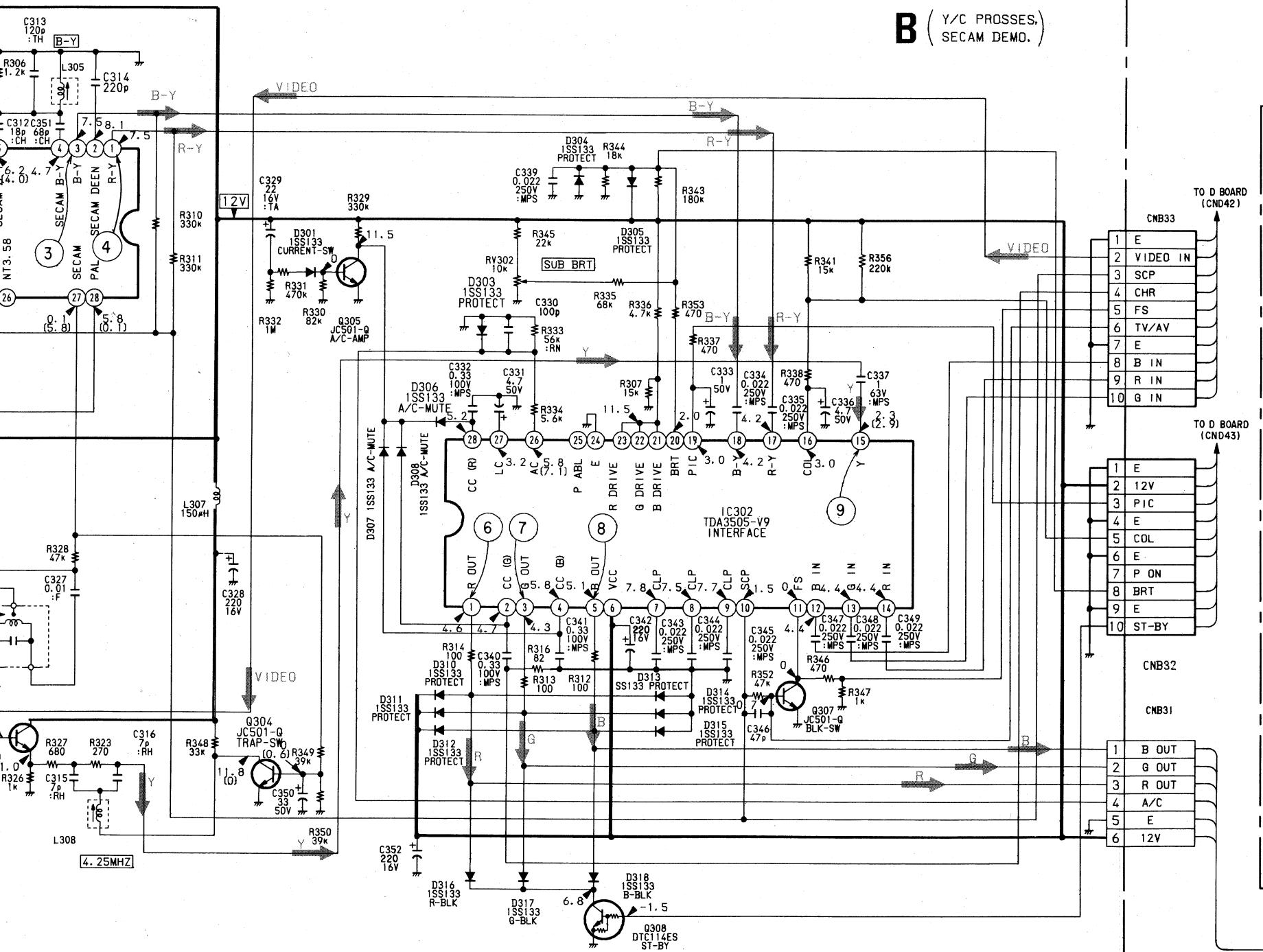


5-4. SCHEMATIC DIAGRAMS (2)

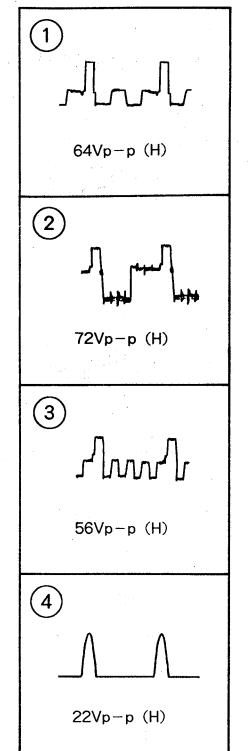
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



B (Y/C PROSES,
SECAM DEMO.)



C BOARD WAVEFORM

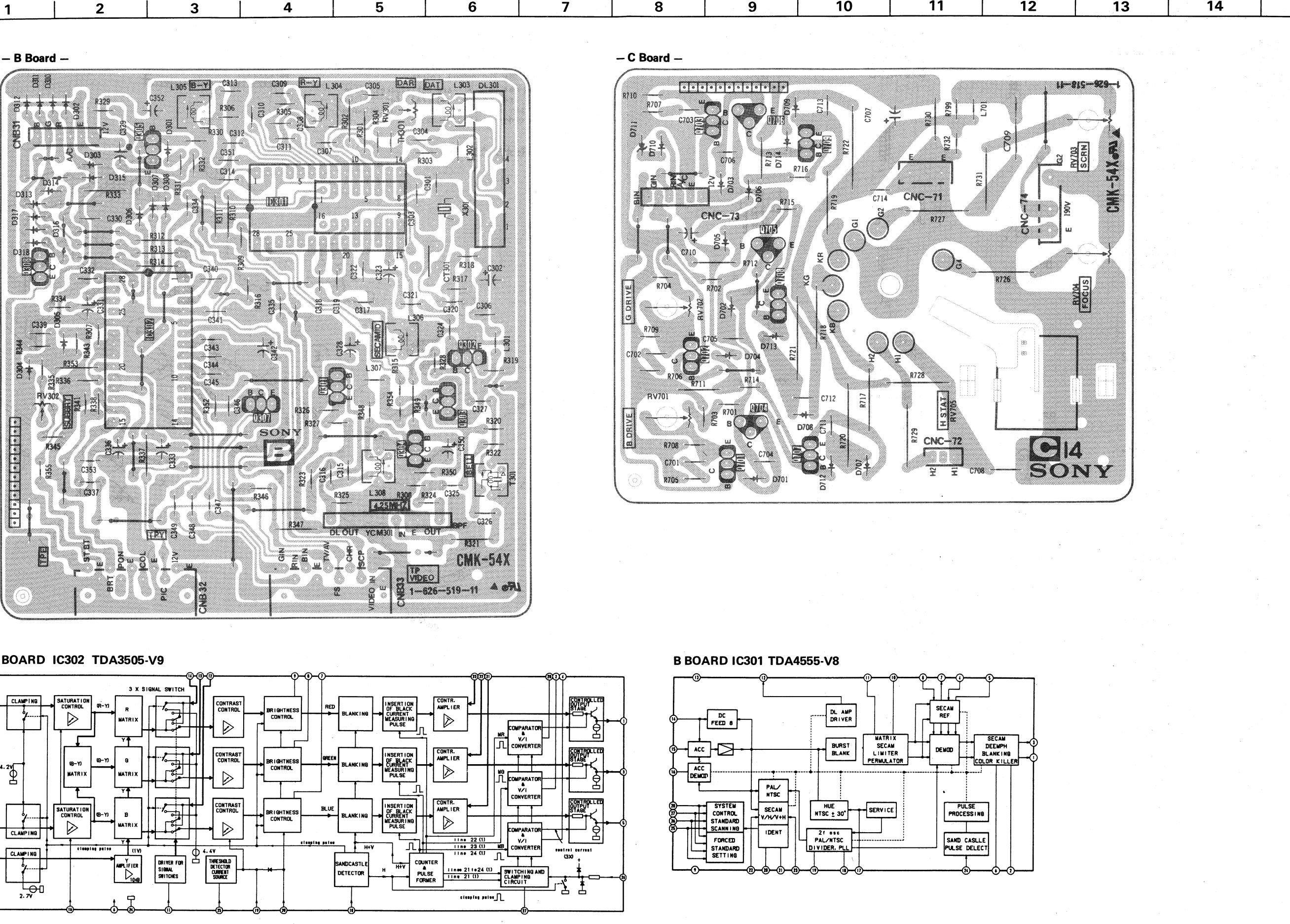


5-5. PRINTED WIRING BOARDS (2)

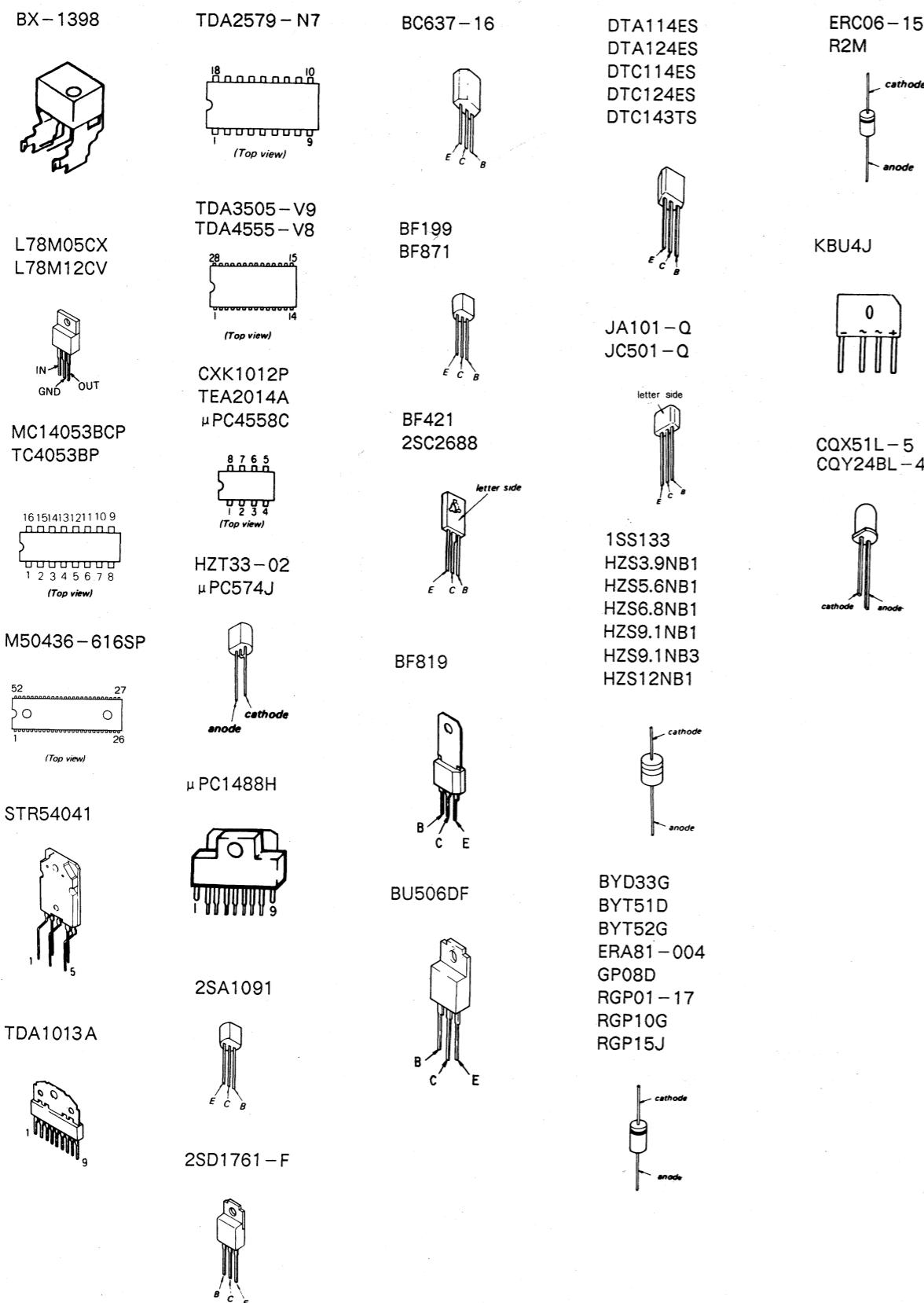
Y/C PROSESSES,
SECAM DEMO,

B

[R, G, B OUT]



5-6. SEMICONDUCTORS



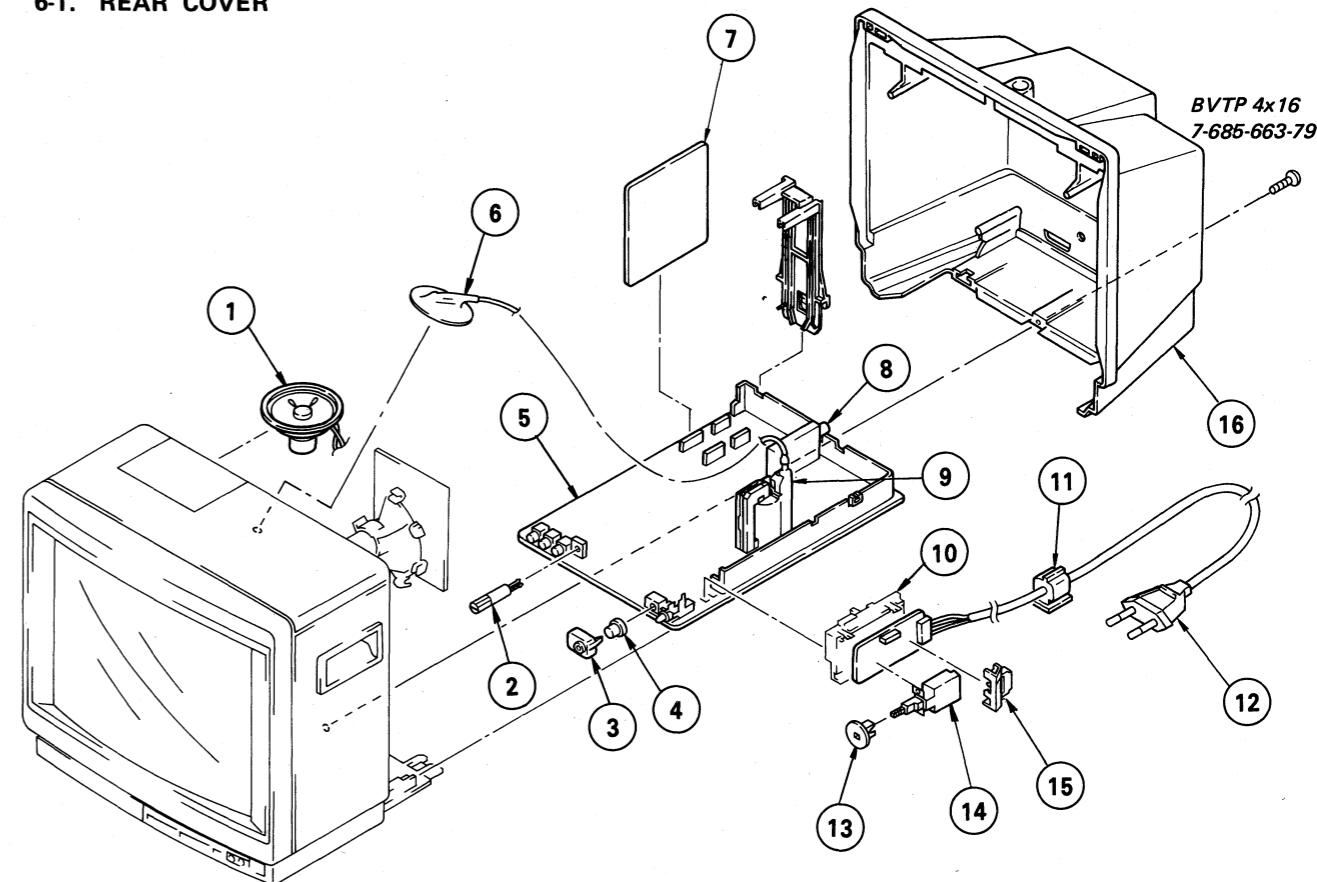
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 6
EXPLODED VIEWS

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

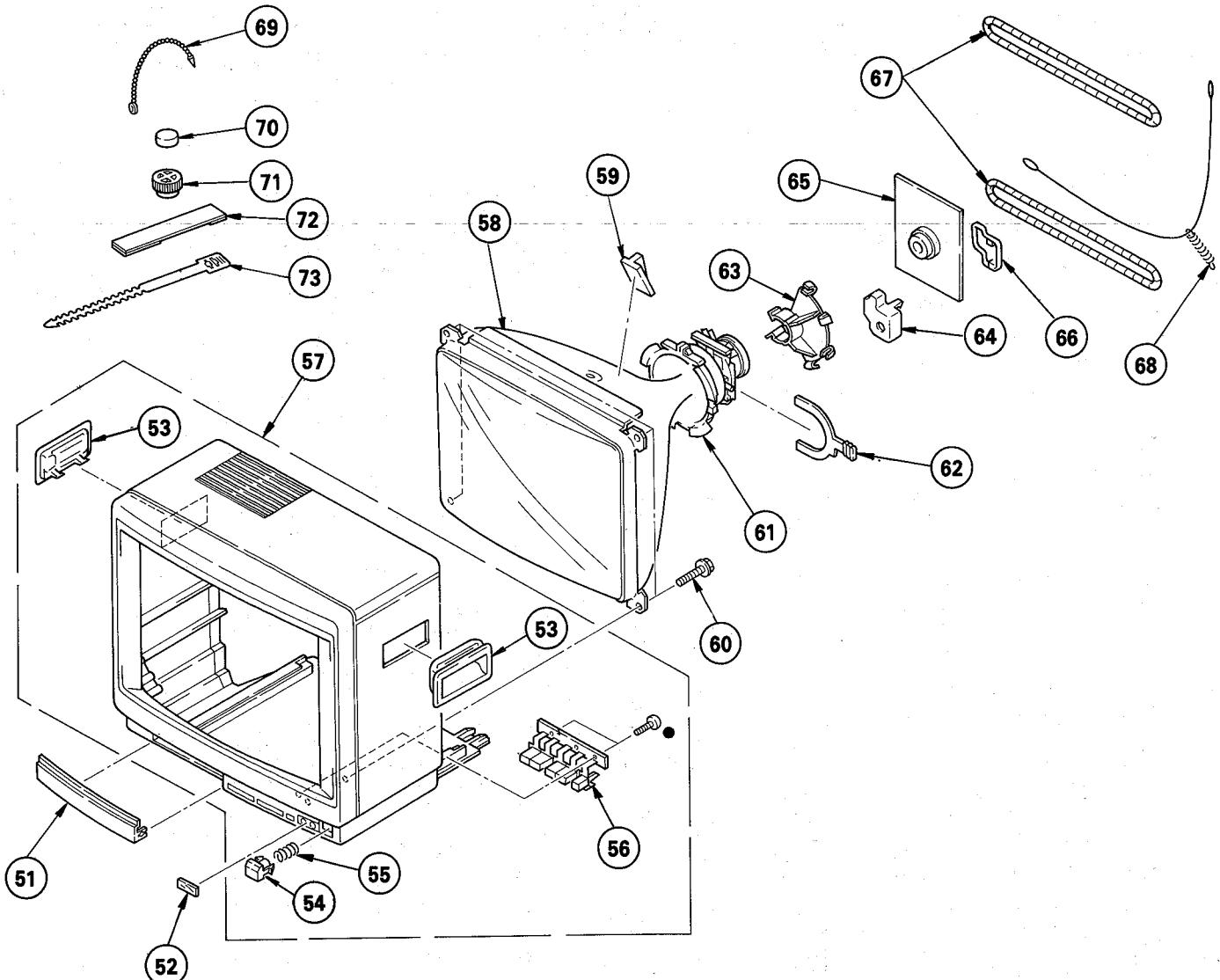
6-1. REAR COVER



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	1-503-767-11	SPEAKER (8CM CONE TYPE)		10	*1-626-517-11	F BOARD	
2	4-389-302-01	KNOB, VOLUME		11	▲1-022-115-01	HOLDER, AC CORD	
3	*4-388-955-01	BRACKET (B), LIGHT GUIDE		12	▲1-559-346-11	CORD, POWER (WITH CONNECTOR)	
4	*4-374-987-01	GUIDE, LIGHT		13	4-386-611-01	COVER, SWITCH	
5	*A-1345-775-A	D BOARD, COMPLETE (KV-M14D ONLY)		14	▲1-571-433-11	SWITCH, PUSH (AC POWER)	
	*A-1345-787-A	D BOARD, COMPLETE (KV-P14D ONLY)		15	*4-386-620-01	COVER, POWER	
7	*A-1135-501-A	B BOARD, COMPLETE		16	4-389-322-01	COVER, REAR (FOR BLACK)	
8	▲1-463-881-11	TUNER, ET (UV-617)			4-389-322-11	COVER, REAR (FOR WHITE) (KV-M14D ONLY)	
9	▲1-439-432-11	TRANSFORMER ASSY, FLYBACK					

6-2. BEZEL

• BVT P 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4389-301-1	DOOR ASSY (FOR BLACK)		59	3-703-961-01	SPACER, DY	
	X-4389-301-3	DOOR ASSY (FOR WHITE) (KV-M14D ONLY)		60	4-365-808-00	SCREW (5), TAPPING	
52	4-389-310-01	WINDOW (M), ORNAMENTAL (KV-M14D ONLY)		61	△1-451-249-31	DEFLECTION YOKE (SY-125B)	
	4-389-304-01	WINDOW (P), PRNAMENTAL (KV-P14D ONLY)		62	1-452-277-00	MAGNET, BMC	
53	4-389-320-01	HANDLE (FOR BLACK)		63	*4-385-422-01	HOLDER, LEAD	
	4-389-320-11	HANDLE (FOR WHITE) (KV-M14D ONLY)		64	*4-374-912-01	COVER (MAIN), CV VOL	
54	4-389-312-01	BUTTON, POWER (FOR BLACK)		65	*A-1330-868-A	C BOARD, COMPLETE	
	4-389-312-11	BUTTON, POWER (FOR WHITE) (KV-M14D ONLY)		66	*4-374-913-01	COVER (REAR LID), CV VOL	
55	4-389-306-01	SPRING, COMPRESSION		67	△1-426-145-21	COIL, DEGAUSSING	
56	4-389-317-01	BUTTON, MULTI (FOR BLACK)		68	4-369-318-00	SPRING, TENSION	
	4-389-317-11	BUTTON, MULTI (FOR WHITE) (KV-M14D ONLY)		69	4-308-870-00	CLIP, LEAD WIRE	
57	X-4389-305-2	BEZEL ASSY (FOR BLACK)	53-56	70	1-452-032-00	MAGNET, DISK; 10MM Ø	
	X-4389-305-3	BEZEL ASSY (FOR WHITE) (KV-M14D ONLY)	53-56	71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
58	△8-735-555-05	PICTURE TUBE (A34JBU10X)		72	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
				73	3-701-007-00	BAND, BINDING	

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

All resistors are in ohms
F : nonflammable

CAPACITORS COILS

MF : μ F, PF : $\mu\mu$ F MMH : mH, UH : μ H

Note: In this parts list, the mounting diagram is for a different product.
Therefore, an excess of parts is listed.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark				
	*A-1135-501-A	B BOARD, COMPLETE	*****	C350	1-124-917-11	ELECT	33MF 20% 50V				
				C351	1-101-888-00	CERAMIC	68PF 5% 50V				
				C352	1-124-120-11	ELECT	220MF 20% 16V				
				C353	1-102-959-00	CERAMIC	22PF 10% 50V				
<u>CAPACITOR</u>											
C301	1-110-175-81	MYLAR	0.1MF 10% 100V	<u>CONNECTOR</u>							
C302	1-124-120-11	ELECT	220MF 20% 16V	CNB31	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P					
C303	1-101-005-00	CERAMIC	0.022MF 50V	CNB32	*1-565-393-11	CONNECTOR, BOARD TO BOARD					
C304	1-110-190-81	MYLAR	0.01MF 10% 400V	CNB33	*1-565-393-11	CONNECTOR, BOARD TO BOARD					
C305	1-101-884-00	CERAMIC	56PF 5% 50V	<u>TRIMMER</u>							
C306	1-101-006-00	CERAMIC	0.047MF 50V	CT301	1-141-392-11	CAP, VAR, TRIMMER (1 GANG)					
C307	1-101-004-00	CERAMIC	0.01MF 50V	<u>DIODE</u>							
C308	1-101-888-00	CERAMIC	68PF 5% 50V	D301	8-719-911-19	DIODE 1SS119					
C309	1-102-735-00	CERAMIC	120PF 5% 50V	D303	8-719-911-19	DIODE 1SS119					
C310	1-102-978-00	CERAMIC	220PF 5% 50V	D304	8-719-911-19	DIODE 1SS119					
C311	1-102-953-00	CERAMIC	18PF 5% 50V	D305	8-719-911-19	DIODE 1SS119					
C312	1-102-953-00	CERAMIC	18PF 5% 50V	D306	8-719-911-19	DIODE 1SS119					
C313	1-102-735-00	CERAMIC	120PF 5% 50V	D307	8-719-911-19	DIODE 1SS119					
C314	1-102-978-00	CERAMIC	220PF 5% 50V	D308	8-719-911-19	DIODE 1SS119					
C315	1-102-662-00	CERAMIC	7PF 0.5PF 50V	D310	8-719-911-19	DIODE 1SS119					
C316	1-102-662-00	CERAMIC	7PF 0.5PF 50V	D311	8-719-911-19	DIODE 1SS119					
C317	1-102-679-00	CERAMIC	120PF 5% 50V	D312	8-719-911-19	DIODE 1SS119					
C318	1-102-074-00	CERAMIC	0.001MF 10% 50V	D313	8-719-911-19	DIODE 1SS119					
C319	1-110-182-81	MYLAR	0.022MF 10% 250V	D314	8-719-911-19	DIODE 1SS119					
C320	1-102-935-00	CERAMIC	2PF 0.25PF 50V	D315	8-719-911-19	DIODE 1SS119					
C321	1-110-329-81	MYLAR	0.47MF 10% 100V	D316	8-719-911-19	DIODE 1SS119					
C322	1-110-171-81	MYLAR	0.047MF 10% 100V	D317	8-719-911-19	DIODE 1SS119					
C323	1-124-499-11	ELECT	1MF 20% 50V	D318	8-719-911-19	DIODE 1SS119					
C324	1-102-074-00	CERAMIC	0.001MF 10% 50V	<u>DELAY LINE</u>							
C325	1-101-004-00	CERAMIC	0.01MF 50V	DL301	1-415-187-13	DELAY LINE					
C326	1-101-361-00	CERAMIC	150PF 5% 50V	<u>IC</u>							
C327	1-101-004-00	CERAMIC	0.01MF 50V	IC301	8-759-947-20	IC TDA4555-V8					
C328	1-124-120-11	ELECT	220MF 20% 16V	IC302	8-759-947-19	IC TDA3505-V9					
C329	1-131-373-00	TANTALUM	22MF 10% 16V	<u>COIL</u>							
C330	1-102-973-00	CERAMIC	100PF 5% 50V	L301	1-408-423-00	INDUCTOR 150UH					
C331	1-124-927-11	ELECT	4.7MF 20% 50V	L302	1-408-408-00	INDUCTOR 8.2UH					
C332	1-110-327-81	MYLAR	0.33MF 10% 100V	L303	1-404-539-11	COIL					
C333	1-124-499-11	ELECT	1MF 20% 50V	L304	1-404-554-11	COIL					
C334	1-110-182-81	MYLAR	0.022MF 10% 250V	L305	1-404-554-11	COIL					
C335	1-110-182-81	MYLAR	0.022MF 10% 250V	<u>COIL</u>							
C336	1-124-927-11	ELECT	4.7MF 20% 50V	L306	1-404-554-11	COIL 150UH					
C337	1-110-333-81	MYLAR	1MF 10% 63V	L307	1-408-423-00	INDUCTOR 150UH					
C339	1-110-182-81	MYLAR	0.022MF 10% 250V	L308	1-404-495-00	COIL 150UH					
C340	1-110-327-81	MYLAR	0.33MF 10% 100V								
C341	1-110-327-81	MYLAR	0.33MF 10% 100V								
C342	1-124-120-11	ELECT	220MF 20% 16V								
C343	1-110-182-81	MYLAR	0.022MF 10% 250V								
C344	1-110-182-81	MYLAR	0.022MF 10% 250V								
C345	1-110-182-81	MYLAR	0.022MF 10% 250V								
C346	1-101-880-00	CERAMIC	47PF 5% 50V								
C347	1-110-182-81	MYLAR	0.022MF 10% 250V								
C348	1-110-182-81	MYLAR	0.022MF 10% 250V								
C349	1-110-182-81	MYLAR	0.022MF 10% 250V								

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

B **F** **C**

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>				
<u>TRANSISTOR</u>											
Q301	8-729-178-54	TRANSISTOR 2SC2785		RV301	1-238-009-11	RES, ADJ, CARBON 220					
Q302	8-729-178-54	TRANSISTOR 2SC2785		RV302	1-238-016-11	RES, ADJ, CARBON 10K					
Q303	8-729-178-54	TRANSISTOR 2SC2785		<u>VARIABLE RESISTOR</u>							
Q304	8-729-178-54	TRANSISTOR 2SC2785		<u>TRANSFORMER</u>							
Q305	8-729-178-54	TRANSISTOR 2SC2785		T301	1-404-584-11	COIL					
Q307	8-729-178-54	TRANSISTOR 2SC2785		<u>CRYSTAL</u>							
Q308	8-729-900-80	TRANSISTOR DTC114ES		X301	1-567-131-00	OSCILLATOR, CRYSTAL					
<u>RESISTOR</u>											
R301	1-249-418-11	CARBON	1.2K	5%	1/4W						
R302	1-249-401-11	CARBON	47	5%	1/4W						
R303	1-249-412-11	CARBON	390	5%	1/4W						
R304	1-249-408-11	CARBON	180	5%	1/4W						
R305	1-249-416-11	CARBON	820	5%	1/4W						
R306	1-249-419-11	CARBON	1.5K	5%	1/4W						
R307	1-249-431-11	CARBON	15K	5%	1/4W						
R308	1-249-417-11	CARBON	1K	5%	1/4W						
R309	1-249-409-11	CARBON	220	5%	1/4W						
R310	1-247-891-00	CARBON	330K	5%	1/4W						
R311	1-247-891-00	CARBON	330K	5%	1/4W						
R312	1-249-405-11	CARBON	100	5%	1/4W						
R313	1-249-405-11	CARBON	100	5%	1/4W						
R314	1-249-405-11	CARBON	100	5%	1/4W						
R315	1-249-437-11	CARBON	47K	5%	1/4W						
R316	1-249-404-00	CARBON	82	5%	1/4W						
R317	1-249-429-11	CARBON	10K	5%	1/4W						
R318	1-247-848-11	CARBON	5.1K	5%	1/4W						
R319	1-249-419-11	CARBON	1.5K	5%	1/4W						
R320	1-249-437-11	CARBON	47K	5%	1/4W						
R321	1-249-418-11	CARBON	1.2K	5%	1/4W						
R322	1-249-417-11	CARBON	1K	5%	1/4W						
R323	1-249-410-11	CARBON	270	5%	1/4W						
R324	1-249-421-11	CARBON	2.2K	5%	1/4W						
R325	1-249-419-11	CARBON	1.5K	5%	1/4W						
R326	1-249-417-11	CARBON	1K	5%	1/4W						
R327	1-249-415-11	CARBON	680	5%	1/4W						
R328	1-249-437-11	CARBON	47K	5%	1/4W						
R329	1-247-891-00	CARBON	330K	5%	1/4W						
R330	1-249-440-11	CARBON	82K	5%	1/4W						
R331	1-247-895-00	CARBON	470K	5%	1/4W						
R332	1-247-903-00	CARBON	1M	5%	1/4W						
R333	1-216-963-91	METAL	56K	1%	1/4W						
R334	1-249-426-11	CARBON	5.6K	5%	1/4W						
R335	1-249-439-11	CARBON	68K	5%	1/4W						
R336	1-249-425-11	CARBON	4.7K	5%	1/4W						
R337	1-249-413-11	CARBON	470	5%	1/4W						
R338	1-249-413-11	CARBON	470	5%	1/4W						
R341	1-249-431-11	CARBON	15K	5%	1/4W						
R343	1-247-885-00	CARBON	180K	5%	1/4W						
R344	1-249-432-11	CARBON	18K	5%	1/4W						
R345	1-249-433-11	CARBON	22K	5%	1/4W						
R346	1-249-413-11	CARBON	470	5%	1/4W						
R347	1-249-417-11	CARBON	1K	5%	1/4W						
R348	1-249-435-11	CARBON	33K	5%	1/4W						
R349	1-249-436-11	CARBON	39K	5%	1/4W						
R350	1-249-436-11	CARBON	39K	5%	1/4W						
R352	1-249-437-11	CARBON	47K	5%	1/4W						
R353	1-249-413-11	CARBON	470	5%	1/4W						
R355	1-247-887-00	CARBON	220K	5%	1/4W						
<u>SWITCH</u>											
<u>FUSE</u>											
F601	Δ 1-576-016-11	FUSE, TIME-LAG 3.15A/250V		<u>SWITCH</u>							
		1-533-149-00	HOLDER, FUSE; F601	<u>FUSE</u>							
<u>CAPACITOR</u>											
C701	1-102-980-00	CERAMIC	270PF	5%	50V						
C702	1-102-980-00	CERAMIC	270PF	5%	50V						
C703	1-102-820-00	CERAMIC	330PF	5%	50V						
C704	1-102-114-00	CERAMIC	470PF	10%	50V						
C705	1-102-114-00	CERAMIC	470PF	10%	50V						
C706	1-102-114-00	CERAMIC	470PF	10%	50V						
C707	1-123-947-00	ELECT	10MF	20%	250V						
C708	1-162-116-00	CERAMIC	680PF	10%	2KV						
C709	1-136-666-11	FILM	0.01MF	5%	1KV						
C710	1-124-477-11	ELECT	47MF	20%	16V						
C711	1-102-074-00	CERAMIC	0.001MF	10%	50V						
C712	1-102-074-00	CERAMIC	0.001MF	10%	50V						
C713	1-102-074-00	CERAMIC	0.001MF	10%	50V						
C714	1-162-318-11	CERAMIC	0.001MF	10%	500V						
<u>CONNECTOR</u>											
CNC71	*1-508-786-00	2P PLUG (M)									
CNC72	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P									
CNC73	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P									
CNC74	*1-508-765-00	3P PLUG (M)									

C **D**

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>				
<u>DIODE</u>											
D701	8-719-911-19	DIODE 1SS119		RV701	1-237-749-11	RES, ADJ, CARBON 2200					
D702	8-719-911-19	DIODE 1SS119		RV702	1-237-749-11	RES, ADJ, CARBON 2200					
D703	8-719-911-19	DIODE 1SS119		RV703	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M					
D704	8-719-911-19	DIODE 1SS119		RV704	1-230-641-21	RES, ADJ, METAL GLAZE 2.2M					
D705	8-719-911-19	DIODE 1SS119		RV705	1-230-798-11	RES, ADJ, METAL GLAZE 90M					
D706	8-719-911-19	DIODE 1SS119		*****							
D707	8-719-911-19	DIODE 1SS119		*A-1345-775-A D BOARD, COMPLETE (KV-M14D ONLY)							
D708	8-719-911-19	DIODE 1SS119		*****							
D709	8-719-911-19	DIODE 1SS119		*A-1345-787-A D BOARD, COMPLETE (KV-P14D ONLY)							
<u>JACK</u>											
J901	1-526-819-11	SOCKET, PICTURE TUBE		*****							
<u>COIL</u>											
L701	1-408-415-00	INDUCTOR	33UH	*****							
<u>TRANSISTOR</u>											
Q701	8-729-178-54	TRANSISTOR 2SC2785		C001	1-124-908-11	ELECT	22MF	20%	50V		
Q702	8-729-178-54	TRANSISTOR 2SC2785		C002	1-124-499-11	ELECT	1MF	20%	50V		
Q703	8-729-178-54	TRANSISTOR 2SC2785		C003	1-124-499-11	ELECT	1MF	20%	50V		
Q704	8-729-906-70	TRANSISTOR BF871		C004	1-102-973-00	CERAMIC	100PF	5%	50V		
Q705	8-729-906-70	TRANSISTOR BF871		C005	1-110-175-81	MYLAR	0.1MF	10%	100V		
Q706	8-729-906-70	TRANSISTOR BF871		C007	1-124-927-11	ELECT	4.7MF	20%	50V		
Q707	8-729-200-17	TRANSISTOR 2SA1091		C009	1-102-111-00	CERAMIC	270PF	10%	50V		
Q708	8-729-200-17	TRANSISTOR 2SA1091		C010	1-102-965-00	CERAMIC	39PF	5%	50V		
Q709	8-729-200-17	TRANSISTOR 2SA1091		C011	1-102-965-00	CERAMIC	39PF	5%	50V		
<u>RESISTOR</u>											
R701	1-249-423-11	CARBON	3.3K 5%	C012	1-101-004-00	CERAMIC	0.01MF		50V		
R702	1-249-423-11	CARBON	3.3K 5%	C013	1-102-959-00	CERAMIC	22PF	5%	50V		
R703	1-249-415-11	CARBON	680 5%	C014	1-101-004-00	CERAMIC	0.01MF		50V		
R704	1-249-415-11	CARBON	680 5%	C015	1-124-479-11	ELECT	330MF	20%	25V		
R705	1-249-401-11	CARBON	47 5%	C016	1-102-978-00	CERAMIC	220PF	5%	50V		
R706	1-249-401-11	CARBON	47 5%	C019	1-124-908-11	ELECT	22MF	20%	50V		
R707	1-249-401-11	CARBON	47 5%	C020	1-124-908-11	ELECT	22MF	20%	50V		
R708	1-249-417-11	CARBON	1K 5%	C022	1-101-004-00	CERAMIC	0.01MF		50V		
R709	1-249-416-11	CARBON	820 5%	C033	1-101-004-00	CERAMIC	0.01MF		50V		
R710	1-249-413-11	CARBON	470 5%	C034	1-126-101-11	ELECT	100MF	20%	16V		
R712	1-247-891-91	CARBON	330K 1%	C037	1-101-004-00	CERAMIC	0.01MF		50V		
R713	1-247-881-91	CARBON	120K 1%	C041	1-102-116-00	CERAMIC	680PF	10%	50V		
R714	1-249-417-11	CARBON	1K 5%	C043	1-102-978-00	CERAMIC	220PF	5%	50V		
R715	1-249-417-11	CARBON	1K 5%	C071	1-110-175-81	MYLAR	0.1MF	10%	100V		
R716	1-249-417-11	CARBON	1K 5%	C072	1-110-171-81	MYLAR	0.047MF	10%	100V		
R717	1-202-824-00	SOLID	3.3K 10%	C073	1-101-004-00	CERAMIC	0.01MF		50V		
R718	1-202-824-00	SOLID	3.3K 10%	C075	1-102-074-00	CERAMIC	0.001MF	10%	50V		
R719	1-202-824-00	SOLID	3.3K 10%	C076	1-102-125-00	CERAMIC	0.0047MF	10%	50V		
R720	1-218-087-51	METAL OXIDE	12K 5%	C151	1-124-477-11	ELECT	47MF	20%	16V		
R721	1-218-087-51	METAL OXIDE	12K 5%	C152	1-124-480-11	ELECT	470MF	20%	25V		
R722	1-218-087-51	METAL OXIDE	12K 5%	C153	1-110-175-81	MYLAR	0.1MF	10%	100V		
R726	1-202-719-00	SOLID	1M 10%	C154	1-110-173-81	MYLAR	0.068MF	10%	100V		
R727	1-202-838-00	SOLID	100K 10%	C155	1-110-173-81	MYLAR	0.068MF	10%	100V		
R728	1-202-842-11	SOLID	220K 10%	C156	1-101-004-00	CERAMIC	0.01MF		50V		
R729	1-207-462-00	WI REWOUND	0.82 10%	C157	1-102-963-00	CERAMIC	33PF	5%	50V		
R731	1-202-719-00	SOLID	1M 10%	C158	1-124-477-11	ELECT	47MF	20%	16V		
R732	1-247-895-00	CARBON	470K 5%	C163	1-101-003-00	CERAMIC	0.0047MF		50V		
				C164	1-101-003-00	CERAMIC	0.0047MF		50V		
				C201	1-124-479-11	ELECT	330MF	20%	25V		
				C202	1-110-175-81	MYLAR	0.1MF	10%	100V		
				C203	1-124-038-00	ELECT	1MF	20%	50V		
				C204	1-110-171-81	MYLAR	0.047MF	10%	100V		
				C205	1-123-875-11	ELECT	10MF	20%	50V		
				C206	1-110-184-81	MYLAR	0.033MF	10%	250V		
				C207	1-110-175-81	MYLAR	0.1MF	10%	100V		
				C208	1-124-128-00	ELECT	470MF	20%	25V		

The components identified by shading and mark Δ are critical for safety.
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark					
C209	1-102-074-00	CERAMIC	0.001MF	10%	50V	C629	1-102-316-00	CERAMIC	15PF	5%	500V	
C210	1-102-074-00	CERAMIC	0.001MF	10%	50V	C631	1-102-228-00	CERAMIC	470PF	10%	500V	
C212	1-102-973-00	CERAMIC	100PF	5%	50V	C801	1-124-499-11	ELECT	1MF	20%	50V	
C213	1-101-005-00	CERAMIC	0.022MF		50V	C802	1-123-932-00	ELECT	4.7MF	20%	160V	
C402	1-102-074-00	CERAMIC	0.001MF	10%	50V	C803	1-110-171-81	MYLAR	0.047MF	10%	100V	
C404	1-102-114-00	CERAMIC	470PF	10%	50V	C804	1-110-185-81	MYLAR	0.0039MF	10%	400V	
C405	1-124-902-00	ELECT	0.47MF	20%	50V	C805	1-102-244-00	CERAMIC	220PF	10%	500V	
C406	1-124-477-11	ELECT	47MF	20%	16V	C806	Δ 1-162-116-51	CERAMIC	680PF	10%	2KV	
C407	1-124-902-00	ELECT	0.47MF	20%	50V	C807	1-110-332-81	MYLAR	0.82MF	10%	63V	
C409	1-124-477-11	ELECT	47MF	20%	16V	C808	1-136-645-11	FILM	0.068MF	10%	160V	
C410	1-124-477-11	ELECT	47MF	20%	16V	C812	Δ 1-136-073-11	FILM	0.0073MF	3%	2KV	
C411	1-102-074-00	CERAMIC	0.001MF	10%	50V	C813	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C412	1-126-101-11	ELECT	100MF	20%	16V	C814	1-124-908-11	ELECT	22MF	20%	50V	
C413	1-124-908-11	ELECT	22MF	20%	50V	C815	1-123-943-00	ELECT	1MF	20%	250V	
C415	1-124-908-11	ELECT	22MF	20%	50V	C818	1-126-101-11	ELECT	100MF	20%	16V	
C417	1-101-005-00	CERAMIC	0.022MF		50V	C821	1-110-178-81	MYLAR	0.18MF	10%	100V	
C418	1-102-074-00	CERAMIC	0.001MF	10%	50V	C822	1-136-629-11	FILM	0.82MF	5%	160V	
C433	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C825	1-110-190-81	MYLAR	0.01MF	10%	400V	
C501	1-101-004-00	CERAMIC	0.01MF		50V	C851	1-123-948-00	ELECT	22MF	20%	250V	
C502	1-102-117-00	CERAMIC	820PF	10%	50V	C852	1-162-114-00	CERAMIC	0.0047MF		2KV	
C503	1-101-880-00	CERAMIC	47PF	5%	50V	C853	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C504	1-124-480-11	ELECT	470MF	20%	25V	C856	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C505	1-124-122-11	ELECT	100MF	20%	50V	C857	1-110-182-81	MYLAR	0.022MF	10%	250V	
C506	1-110-332-81	MYLAR	0.82MF	10%	63V	C858	1-123-357-00	ELECT	22MF	20%	50V	
C507	1-124-913-11	ELECT	470MF	20%	50V	C859	1-126-101-11	ELECT	100MF	20%	16V	
C508	1-110-175-81	MYLAR	0.1MF	10%	100V	C860	1-102-228-00	CERAMIC	470PF	10%	500V	
C510	1-124-908-11	ELECT	22MF	20%	50V	<u>FILTER</u>						
C551	1-124-927-11	ELECT	4.7MF	20%	50V	CF001	1-577-082-11	VIBRATOR, CERAMIC				
C552	1-124-927-11	ELECT	4.7MF	20%	50V	<u>CONNECTOR</u>						
C553	1-110-175-81	MYLAR	0.1MF	10%	100V	CND01	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
C554	1-124-908-11	ELECT	22MF	20%	50V							
C555	1-124-925-11	ELECT	2.2MF	20%	50V	CND21	*1-560-290-00	PLUG, CONNECTOR (2.5MM) 3P				
C556	1-101-361-00	CERAMIC	150PF	5%	50V							
C557	1-110-327-81	MYLAR	0.33MF	10%	100V	CND42	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR				
C558	1-110-327-81	MYLAR	0.33MF	10%	100V	CND43	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR				
C559	1-110-185-81	MYLAR	0.0039MF	10%	400V	CND61	*1-508-765-00	3P PLUG (M)				
C560	1-126-101-11	ELECT	100MF	20%	16V	CND62	*1-565-458-11	PIN, CONNECTOR 3P				
C561	1-110-175-81	MYLAR	0.1MF	10%	100V	CND81	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P				
C562	1-161-961-00	CERAMIC	0.0022MF	10%	3KV	CND82	*1-508-768-00	6P PLUG				
C563	1-124-477-11	ELECT	47MF	20%	16V	CND83	*1-508-784-00	1P PLUG				
C564	1-129-794-00	FILM	0.0033MF	2%	100V	<u>DIODE</u>						
C565	1-130-785-81	MYLAR	0.47MF	10%	100V	D002	8-719-911-19	DIODE 1SS119				
C566	1-102-942-00	CERAMIC	5PF	1PF	50V	D003	8-719-911-19	DIODE 1SS119				
C567	1-110-192-81	MYLAR	0.015MF	10%	400V	D004	8-719-911-19	DIODE 1SS119 (KV-M14D ONLY)				
C568	1-161-961-00	CERAMIC	0.0022MF	10%	3KV	D005	8-719-951-29	DIODE CQX51L-5 (KV-M14D ONLY)				
C570	1-124-902-00	ELECT	0.47MF	20%	50V	*4-389-319-01	HOLDER, LED; D005					
C571	1-126-101-11	ELECT	100MF	20%	16V	D007	8-719-911-19	DIODE 1SS119				
C601	Δ 1-161-964-61	CERAMIC	0.0047MF		250V	D008	8-719-911-19	DIODE 1SS119				
C602	Δ 1-161-964-61	CERAMIC	0.0047MF		250V	D009	8-719-911-19	DIODE 1SS119				
C603	1-161-964-00	CERAMIC	0.0047MF		250V	D010	8-719-911-19	DIODE 1SS119				
C604	1-125-293-00	ELECT(BLOCK)	220MF		400V	D011	8-719-911-19	DIODE 1SS119				
C605	1-161-731-00	CERAMIC	0.001MF	10%	2KV	D016	8-719-911-19	DIODE 1SS119				
C606	1-136-637-11	FILM	0.047MF	10%	630V	D017	8-719-911-19	DIODE 1SS119				
C607	1-110-171-81	MYLAR	0.047MF	10%	100V	D019	8-719-911-19	DIODE 1SS119				
C608	1-162-116-00	CERAMIC	680PF	10%	2KV	D025	8-719-109-71	DIODE RD3.9ES-B1				
C609	1-123-024-00	ELECT	33MF		160V	D151	8-719-911-19	DIODE 1SS119				
C610	1-124-557-11	ELECT	1000MF	20%	25V	D156	8-719-911-19	DIODE 1SS119				
C614	1-126-101-11	ELECT	100MF	20%	16V	D402	8-719-109-96	DIODE RD6.8ES-B1				
C615	Δ 1-162-578-51	CERAMIC	0.0047MF	20%	400V	D403	8-719-109-96	DIODE RD6.8ES-B1				
C616	Δ 1-162-578-51	CERAMIC	0.0047MF	20%	400V	D404	8-719-109-96	DIODE RD6.8ES-B1				
C618	1-124-908-11	ELECT	22MF	20%	50V							
C620	Δ 1-136-519-11	FILM	0.47MF	20%	300V							
C621	Δ 1-136-519-11	FILM	0.47MF	20%	300V							
C622	Δ 1-162-578-00	CERAMIC	0.0047MF	20%	400V							
C623	Δ 1-162-578-00	CERAMIC	0.0047MF	20%	400V							

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
D405	8-719-911-19	DIODE 1SS119		L003	1-408-409-00	INDUCTOR	10UH
D406	8-719-911-19	DIODE 1SS119		L004	1-408-415-00	INDUCTOR	33UH
D407	8-719-911-19	DIODE 1SS119		L005	1-410-663-31	INDUCTOR	10UH
D408	8-719-911-19	DIODE 1SS119		L151	1-408-226-00	INDUCTOR	82UH
D410	8-719-911-19	DIODE 1SS119		L152	1-410-683-31	INDUCTOR	560UH
D411	8-719-911-19	DIODE 1SS119		L153	1-408-399-00	INDUCTOR	1.5UH
D413	8-719-110-30	DIODE RD12ES-B1		L201	1-408-409-00	INDUCTOR	10UH
D414	8-719-911-19	DIODE 1SS119		L202	1-408-409-00	INDUCTOR	10UH
D415	8-719-911-19	DIODE 1SS119		L401	1-408-417-00	INDUCTOR	47UH
D416	8-719-911-19	DIODE 1SS119		L403	1-408-409-00	INDUCTOR	10UH
D419	8-719-911-19	DIODE 1SS119		L501	1-408-226-00	INDUCTOR	82UH
D420	8-719-911-19	DIODE 1SS119		L803	1-407-365-00	COIL, CHOKER	
D421	8-719-911-19	DIODE 1SS119		L804	1-408-236-00	INDUCTOR	2.7MMH
D501	8-719-936-83	DIODE GP08DPKG23		L805	1-459-635-11	HLC	
D551	8-719-936-83	DIODE GP08DPKG23		L806	1-459-856-11	COIL, FERRITE	
D601	8-719-946-90	DIODE KBU4JL-6088		L821	1-408-236-00	INDUCTOR	2.7MMH
D602	8-719-300-65	DIODE ES1F		L822	1-410-067-21	INDUCTOR	4.7MMH
D603	8-719-936-83	DIODE GP08DPKG23		L823	1-459-855-11	COIL, FERRITE	
D604	8-719-901-58	DIODE RGP15J					
D605	8-719-924-06	DIODE ERC24-06S					
D606	8-719-908-06	DIODE ERA81-005					
D607	8-719-924-06	DIODE ERC24-06S					
D608	8-719-924-06	DIODE ERC24-06S					
D609	8-719-936-83	DIODE GP08DPKG23					
D610	8-719-936-83	DIODE GP08DPKG23					
D611	8-719-303-49	DIODE R2M					
D801	8-719-945-80	DIODE ERC06-15S					
D802	8-719-924-06	DIODE ERC24-06S					
D851	8-719-924-06	DIODE ERC24-06S					
D852	8-719-300-65	DIODE ES1F					
D853	8-719-924-06	DIODE ERC24-06S					
D855	8-719-924-06	DIODE ERC24-06S					
D857	8-719-936-83	DIODE GP08DPKG23					
D858	8-719-936-83	DIODE GP08DPKG23					
<u>IC LINK</u>							
PS501	Δ 1-532-679-91	LINK, IC					
PS802	Δ 1-532-679-91	LINK, IC					
<u>TRANSISTOR</u>							
Q001	8-729-900-36	TRANSISTOR DTC124ES					
Q003	8-729-900-63	TRANSISTOR DTA124ES					
Q004	8-729-178-54	TRANSISTOR 2SC2785					
Q005	8-729-178-54	TRANSISTOR 2SC2785					
Q008	8-729-900-36	TRANSISTOR DTC124ES					
Q009	8-729-900-74	TRANSISTOR DTC143TS					
Q012	8-729-117-54	TRANSISTOR 2SA1175					
Q015	8-729-178-54	TRANSISTOR 2SC2785					
Q071	8-729-117-54	TRANSISTOR 2SA1175					
Q151	8-729-900-61	TRANSISTOR DTA114ES					
Q152	8-729-900-61	TRANSISTOR DTA114ES					
Q154	8-729-900-61	TRANSISTOR DTA114ES					
Q155	8-729-178-54	TRANSISTOR 2SC2785					
Q158	8-729-901-59	TRANSISTOR BF199					
Q402	8-729-178-54	TRANSISTOR 2SC2785					
Q403	8-729-117-54	TRANSISTOR 2SA1175					
Q404	8-729-117-54	TRANSISTOR 2SA1175					
Q405	8-729-117-54	TRANSISTOR 2SA1175					
Q406	8-729-900-80	TRANSISTOR DTC114ES					
Q501	8-729-178-54	TRANSISTOR 2SC2785					
Q551	8-729-117-54	TRANSISTOR 2SA1175					
Q601	8-729-906-14	TRANSISTOR BC637-16					
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK					
Q802	8-729-906-69	TRANSISTOR BU506DF					
*4-389-343-01	SPRING; Q802						
Q803	8-729-904-27	TRANSISTOR 2SD1761-E					
Q804	8-729-178-54	TRANSISTOR 2SC2785					
<u>RESISTOR</u>							
R001	1-249-438-11	CARBON					
R002	1-249-440-11	CARBON					
R004	1-249-439-11	CARBON					
R005	1-249-413-11	CARBON					
R006	1-249-441-11	CARBON					
R008	1-249-429-11	CARBON					
R009	1-249-429-11	CARBON					
R010	1-249-433-11	CARBON					
R011	1-249-433-11	CARBON					
<u>JACK</u>							
J201	1-507-678-00	JACK					
J401	1-561-534-00	SOCKET 21P					
J402	1-563-500-11	JACK BLOCK, PIN (L TYPE) 2P					
<u>COIL</u>							
L002	1-408-411-00	INDUCTOR	15UH				

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Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R012	1-249-433-11	CARBON	22K	5%	1/4W	R201	1-249-387-11	CARBON	3.3	5%	1/4W
R013	1-249-433-11	CARBON	22K	5%	1/4W	R202	1-247-887-00	CARBON	220K	5%	1/4W
R014	1-218-090-51	METAL OXIDE	22K	5%	2W	R203	1-249-411-11	CARBON	330	5%	1/4W
R015	1-249-421-11	CARBON	2.2K	5%	1/4W	R204	1-247-739-11	CARBON	100	5%	1/2W
R016	1-249-433-11	CARBON	22K	5%	1/4W	R401	1-247-804-11	CARBON	75	5%	1/4W
R017	1-249-407-11	CARBON	150	5%	1/4W	R402	1-247-804-11	CARBON	75	5%	1/4W
R018	1-249-417-11	CARBON	1K	5%	1/4W	R403	1-247-804-11	CARBON	75	5%	1/4W
R019	1-249-413-11	CARBON	470	5%	1/4W	R404	1-247-804-11	CARBON	75	5%	1/4W
R020	1-249-413-11	CARBON	470	5%	1/4W	R405	1-249-411-11	CARBON	330	5%	1/4W
R021	1-249-413-11	CARBON	470	5%	1/4W	R406	1-249-411-11	CARBON	330	5%	1/4W
R022	1-249-411-11	CARBON	330	5%	1/4W	R407	1-249-411-11	CARBON	330	5%	1/4W
R023	1-249-416-11	CARBON	820	5%	1/4W	R408	1-249-431-11	CARBON	15K	5%	1/4W
R029	1-249-429-11	CARBON	10K	5%	1/4W	R409	1-249-431-11	CARBON	15K	5%	1/4W
R030	1-249-429-11	CARBON	10K	5%	1/4W	R410	1-249-407-11	CARBON	150	5%	1/4W
R035	1-249-431-11	CARBON	15K	5%	1/4W	R411	1-249-407-11	CARBON	150	5%	1/4W
R037	1-249-429-11	CARBON	10K	5%	1/4W	R412	1-249-407-11	CARBON	150	5%	1/4W
R038	1-249-429-11	CARBON	10K	5%	1/4W	R413	1-249-425-11	CARBON	4.7K	5%	1/4W
R039	1-249-417-11	CARBON	1K	5%	1/4W	R414	1-249-433-11	CARBON	22K	5%	1/4W
R040	1-249-430-11	CARBON	12K	5%	1/4W	R416	1-247-804-11	CARBON	75	5%	1/4W
R042	1-249-433-11	CARBON	22K	5%	1/4W	R418	1-249-417-11	CARBON	1K	5%	1/4W
R043	1-249-429-11	CARBON	10K	5%	1/4W	R419	1-249-425-11	CARBON	4.7K	5%	1/4W
R044	1-249-433-11	CARBON	22K	5%	1/4W	R420	1-249-413-11	CARBON	470	5%	1/4W
R046	1-249-425-11	CARBON	4.7K	5%	1/4W	R421	1-249-409-11	CARBON	220	5%	1/4W
R051	1-249-427-11	CARBON	6.8K	5%	1/4W	R422	1-249-404-00	CARBON	82	5%	1/4W
R052	1-249-413-11	CARBON	470	5%	1/4W	R423	1-249-438-11	CARBON	56K	5%	1/4W
R055	1-249-413-11	CARBON	470	5%	1/4W	R424	1-249-437-11	CARBON	47K	5%	1/4W
R056	1-249-423-11	CARBON	3.3K	5%	1/4W	R425	1-249-437-11	CARBON	47K	5%	1/4W
R058	1-249-429-11	CARBON	10K	5%	1/4W	R426	1-249-405-11	CARBON	100	5%	1/4W
R059	1-249-426-11	CARBON	5.6K	5%	1/4W	R427	1-247-804-11	CARBON	75	5%	1/4W
R060	1-249-417-11	CARBON	1K	5%	1/4W	R428	1-249-432-11	CARBON	18K	5%	1/4W
R063	1-249-422-11	CARBON	2.7K	5%	1/4W	R429	1-249-409-11	CARBON	220	5%	1/4W
R064	1-249-417-11	CARBON	1K	5%	1/4W	R430	1-249-437-11	CARBON	47K	5%	1/4W
R065	1-249-433-11	CARBON	22K	5%	1/4W	R431	1-249-441-11	CARBON	100K	5%	1/4W
R066	1-249-425-11	CARBON	4.7K	5%	1/4W	R432	1-249-437-11	CARBON	47K	5%	1/4W
R070	1-249-429-11	CARBON	10K	5%	1/4W	R434	1-249-419-11	CARBON	1.5K	5%	1/4W
R071	1-249-413-11	CARBON	470	5%	1/4W	R435	1-247-883-00	CARBON	150K	5%	1/4W
R072	1-249-441-11	CARBON	100K	5%	1/4W	R436	1-249-409-11	CARBON	220	5%	1/4W
R073	1-249-435-11	CARBON	33K	5%	1/4W	R437	1-249-429-11	CARBON	10K	5%	1/4W
R074	1-249-429-11	CARBON	10K	5%	1/4W	R444	1-249-411-11	CARBON	330	5%	1/4W
R075	1-249-431-11	CARBON	15K	5%	1/4W	R501	1-249-425-11	CARBON	4.7K	5%	1/4W
R076	1-249-423-11	CARBON	3.3K	5%	1/4W	R502	1-247-744-11	CARBON	270	5%	1/2W
R077	1-249-435-11	CARBON	33K	5%	1/4W	R503	1-218-021-51	METAL OXIDE	470	5%	1W
R078	1-249-427-11	CARBON	6.8K	5%	1/4W	R504	1-247-895-00	CARBON	470K	5%	1/4W
R079	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-249-429-11	CARBON	10K	5%	1/4W
R080	1-249-429-11	CARBON	10K	5%	1/4W	R506	1-249-424-11	CARBON	3.9K	5%	1/4W
R084	1-249-424-11	CARBON	3.9K	5%	1/4W	R507	1-249-435-11	CARBON	33K	5%	1/4W
R085	1-247-881-00	CARBON	120K	5%	1/4W	R508	1-216-347-11	METAL OXIDE	0.68	5%	1W
R086	1-249-429-11	CARBON	10K	5%	1/4W	R509	1-247-895-00	CARBON	470K	5%	1/4W
R151	1-249-405-11	CARBON	100	5%	1/4W	R510	1-249-439-11	CARBON	68K	5%	1/4W
R152	1-249-423-11	CARBON	3.3K	5%	1/4W	R511	1-247-893-11	CARBON	390K	5%	1/4W
R153	1-249-433-11	CARBON	22K	5%	1/4W	R512	1-218-025-51	METAL OXIDE	1K	5%	1W
R154	1-249-429-11	CARBON	10K	5%	1/4W	R513	1-249-424-11	CARBON	3.9K	5%	1/4W
R155	1-249-418-11	CARBON	1.2K	5%	1/4W	R551	1-217-726-91	FUSIBLE	120	5%	1/4W
R156	1-247-891-00	CARBON	330K	5%	1/4W	R552	1-249-419-11	CARBON	1.5K	5%	1/4W
R157	1-249-421-11	CARBON	2.2K	5%	1/4W	R553	1-249-426-11	CARBON	5.6K	5%	1/4W
R158	1-249-421-11	CARBON	2.2K	5%	1/4W	R554	1-249-404-00	CARBON	82	5%	1/4W
R160	1-249-405-11	CARBON	100	5%	1/4W	R555	1-249-423-11	CARBON	3.3K	5%	1/4W
R162	1-249-425-11	CARBON	4.7K	5%	1/4W	R556	1-249-418-11	CARBON	1.2K	5%	1/4W
R163	1-249-425-11	CARBON	4.7K	5%	1/4W	R558	1-249-417-11	CARBON	1K	5%	1/4W
R164	1-249-413-11	CARBON	470	5%	1/4W	R559	1-215-772-91	METAL	27K	5%	1/4W
R172	1-249-423-11	CARBON	3.3K	5%	1/4W	R560	1-215-796-91	METAL	270K	5%	1/4W
R173	1-249-429-11	CARBON	10K	5%	1/4W	R561	1-249-412-11	CARBON	390	5%	1/4W
R180	1-249-419-11	CARBON	1.5K	5%	1/4W	R562	1-215-768-91	METAL	18K	5%	1/4W
R185	1-249-439-11	CARBON	68K	5%	1/4W	R563	1-249-417-11	CARBON	1K	5%	1/4W
R186	1-249-441-11	CARBON	100K	5%	1/4W	R564	1-249-410-11	CARBON	270	5%	1/4W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

D

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R565	1-215-454-00	METAL	24K 1%	1/6W		<u>SPARK GAP</u>	
R569	1-249-431-11	CARBON	15K	5%	1/4W	SG801	1-519-422-11 GAP, SPARK
R571	1-249-436-11	CARBON	39K	5%	1/4W		<u>TRANSFORMER</u>
R572	1-249-405-11	CARBON	100	5%	1/4W	T601	Δ 1-449-275-11 S.R.T
R573	1-249-433-11	CARBON	22K	5%	1/4W	T603	Δ 1-424-077-11 TRANSFORMER, LINE FILTER
R574	1-249-439-11	CARBON	68K	5%	1/4W	T604	Δ 1-424-078-11 TRANSFORMER, TRIGGER PULSE
R575	1-249-421-11	CARBON	2.2K	5%	1/4W	T605	Δ 1-421-862-11 L.F.T
R576	1-249-432-11	CARBON	18K	5%	1/4W	T801	1-437-078-00 TRANSFORMER, HORIZONTAL DRIVE
R601	Δ 1-205-909-11	WI REWOUND	3.3	5%	10W	T851	Δ 1-439-432-11 TRANSFORMER ASSY, FLYBACK
R602	1-244-939-00	CARBON	560K	5%	1/2W		<u>THERMISTOR</u>
R603	1-218-096-51	METAL OXIDE	68K	5%	2W	TH601	Δ 1-806-165-11 THERMISTOR (POSITIVE)
R604	1-247-750-11	CARBON	680	5%	1/2W		<u>TUNER</u>
R605	Δ 1-218-265-91	METAL GLAZE	8.2M	5%	1W	TU101	Δ 1-463-881-11 TUNER, ET (UV-617)
R606	1-217-723-91	FUSIBLE	68	5%	1/4W		<u>IF BLOCK</u>
R608	1-218-055-51	METAL OXIDE	27	5%	2W	VIF101	1-464-960-11 IF BLOCK (IFG-389)
R609	1-217-739-21	WI REWOUND	0.27	10%	2W		<u>MISCELLANEOUS</u>
R610	1-247-887-00	CARBON	220K	5%	1/4W	*****	*****
R612	1-217-809-91	FUSIBLE	0.33	5%	1/4W	1-452-032-00	MAGNET, DISK; 10MM \varnothing
R613	1-217-811-91	FUSIBLE	0.47	5%	1/4W	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM \varnothing
R615	1-249-399-11	CARBON	33	5%	1/4W	1-452-277-00	MAGNET, BMC
R617	1-216-354-11	METAL OXIDE	2.7	5%	1W F	Δ 1-559-346-11	CORD, POWER (WITH CONNECTOR)
R801	1-217-811-91	FUSIBLE	0.47	5%	1/4W	L901	Δ 1-426-145-21 COIL, DEGAUSSING
R802	1-205-796-11	WI REWOUND	4.7K	10%	5W F	L902	Δ 1-451-249-31 DEFLECTION YOKE (SY-125B)
R804	1-217-822-91	FUSIBLE	4.7K	5%	1/4W	SP901	1-503-767-11 SPEAKER (8CM CONE TYPE)
R805	1-249-399-11	CARBON	33	5%	1/4W	V901	Δ 8-735-555-05 PICTURE TUBE (A34JBU10X)
R806	1-249-421-11	CARBON	2.2K	5%	1/4W		<u>ACCESSORIES AND PACKING MATERIALS</u>
R807	1-217-723-91	FUSIBLE	68	5%	1/4W	*****	*****
R808	1-216-347-11	METAL OXIDE	0.68	5%	1W F	A-1470-839-A	COMMANDER ASSY (RM-658) (KV-M14D ONLY)
R822	1-247-881-00	CARBON	120K	5%	1/4W	1-417-151-11	MATCHING TRANSFORMER, ANTENNA
R823	1-217-817-91	FUSIBLE	1.8K	5%	1/4W	1-501-372-11	ANTENNA, TELESCOPIC
R824	1-249-434-11	CARBON	27K	5%	1/4W	*4-378-262-01	BAG, PROTECTION
R826	1-249-430-11	CARBON	12K	5%	1/4W	*4-389-325-01	CUSHION (UPPER) (ASSY)
R827	1-249-417-11	CARBON	1K	5%	1/4W	*4-389-326-01	CUSHION (LOWER) (ASSY)
R828	1-249-438-11	CARBON	56K	5%	1/4W	*4-389-327-01	INDIVIDUAL CARTON
R829	1-247-887-00	CARBON	220K	5%	1/4W	4-482-575-11	MANUAL, INSTRUCTION
R830	1-249-425-11	CARBON	4.7K	5%	1/4W		
R833	1-217-713-91	FUSIBLE	10	5%	1/4W		
R852	1-218-022-51	METAL OXIDE	560	5%	1W		
R854	1-217-811-91	FUSIBLE	0.47	5%	1/4W		
R855	1-202-830-00	SOLID	10K	10%	1/2W		
R856	1-217-825-91	FUSIBLE	8.2K	5%	1/4W		
R857	1-247-887-00	CARBON	220K	5%	1/4W		
<u>VARIABLE RESISTOR</u>							
RV401	1-238-163-11	RES, VAR, CARBON	10K				
RV501	1-238-016-11	RES, ADJ, CARBON	10K				
RV552	1-238-020-11	RES, ADJ, CARBON	100K				
RV553	1-238-016-11	RES, ADJ, CARBON	10K				
RV801	1-223-102-00	RES, ADJ, WI REWOUND	120				
RV802	1-238-019-21	RES, ADJ, CARBON	47K				
<u>SWITCH</u>							
S001	1-571-532-21	SWI TCH, TACTIL					
S002	1-571-532-21	SWI TCH, TACTIL					
S003	1-571-532-21	SWI TCH, TACTIL					
S004	1-571-532-21	SWI TCH, TACTIL					
S005	1-571-532-21	SWI TCH, TACTIL					
S006	1-571-532-21	SWI TCH, TACTIL					
S007	1-571-532-21	SWI TCH, TACTIL					
S008	1-571-532-21	SWI TCH, TACTIL					
S009	1-571-532-21	SWI TCH, TACTIL					

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